

Digital Satellite Receiver

Operating Instructions

BEFORE USING YOUR DSS SYSTEM

You must activate your programming service by calling your program providers:

DIRECTV® 1-800-347-3288 USSB 1-800-204-8772

For more information, see page 25.

SAT-A2 MODEL ONLY

RF ANTENNA: The DSS receiver is shipped with IR reception enabled and RF reception disabled. To use the RF feature (and the antenna), you must change the factory setting (IR ONLY) to the RF setting (RF ONLY) using the on-screen displays, as described in this manual.



SAT-A2 SAT-B2

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.





This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of significant magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Note to the CATV Installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Note to the DSS® Satellite Dish Installer

This reminder is provided to call the DSS satellite dish installer's attention to Article 810 and in particular Article 810-15 of the NEC, which covers proper installation and grounding of television receiving equipment, as well as to Article 820-40 of the NEC, which specifies that the satellite dish cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Telephone Line Interruption

Periodically, information on your DirecTicket and Pay-Per-View selections is sent, free of charge, via your telephone line to an 800 number. During the time the information is being forwarded, you cannot use your telephone and you will hear static noise for approximately 30 seconds. If you would like to use your telephone while the information is being sent, you can interrupt the sending of this information at any time by temporarily unplugging the phone line to the receiver.

Owner's Record

The model and serial numbers are located on the back of the
receiver. The number for the access card is on the front of the card
and on the carton label. Record these numbers in the space
provided below. Refer to these numbers whenever you need to call
your sales or service representative regarding this product.

Iodel Number:
erial Number:
ccess Card Number:

Customer Support

For DSS Programming

For subscription information, or to resolve problems related to DSS programming, call:

DIRECTV® at 1-800-DIRECTV (347-3288) or USSB at 1-800-204-USSB (8772).

For DSS Hardware and Installation

To arrange for the installation of your DSS system, call the dealer from whom you purchased your system.

For general information, or to resolve problems related to the operation of your satellite receiver or antenna, please contact your Sony brand DSS dealer. If your dealer or installer is unable to answer your questions, call the Sony Digital Satellite System Information Center at 1-800-838-7669.

Trademark and Copyrights

Express Navigator is a trademark of Sony Corporation. DIRECTV and DSS are registered trademarks of DIRECTV, Inc., a unit of Hughes Electronics. USSB and USSB Entertainment Plus are official service marks of the United States Satellite Broadcasting Company, Inc. HBO is a registered trademark of Time Warner Entertainment Company, L.P. Showtime is a service mark of Showtime. MTV: Music Television is a registered trademark of MTV Networks, a division of Viacom International Inc. Comedy Central is a registered trademark of Comedy Partners.

Macrovision Information

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology is granted by Macrovision for home and other limited DSS IRD pay-per-view uses only. Reverse engineering or disassembly is prohibited.

Note on Recording Programming

Programming may be taped for home viewing only. All other taping is expressly prohibited. Some programming may not be taped. An additional taping fee may be applied. Call your program providers for details.

StarSight Licensed

The manufacture and sale of the television schedule feature of this product was licensed under one or more of the following patents of StarSight Telecast, Inc.: U.S. Patent Nos. 4,706,121; 4,977,455; 5,151,789; and 5,353,121; with use rights reserved.

Network Broadcasting Information

ABC, CBS, NBC, FOX, and PBS networks are available from DIRECTV. Some restrictions apply.

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Introducing the DSS System

Welcome to the Sony brand DSS (Digital Satellite System), the ultimate digital entertainment experience. Read this chapter for an overview of the features of the system and to check the carton contents of the DSS receiver.

DSS Features

He	re are just a few benefits of the DSS system that you'll enjoy:
Exc	rellent Performance Superior, digital-quality video that rivals the performance of laserdisc players.
	Crisp digital-quality audio that will enhance your TV or home theater experience.
Pre □	mium Entertainment Choose from a variety of program packages available through your program providers, DIRECTV® and USSB SM .
Coi	Order premium pay-per-view (PPV) movies. PPV programs start as often as every 30 minutes, so you can watch programs when you want to see them.
	Sony's Express Navigator $^{\scriptscriptstyle TM}$ on-screen display system guides you through all the system features and functions.
	Select from a variety of program guides that are sorted by program categories, including Sports, Movies, News, and more.
	The Timer feature, when used with Sony's VCR Mouse, allows you to easily automate the recording of DSS programs.
Cus	stomizable
	Create a Custom Program Guide and up to five of your own Favorite Station Guides for stations you watch most often.
	Change the color palette, transparency, and station ordering of the program guides. Use the DISPLAY button to toggle among different sizes of on-screen displays.
	Set up a passcode, which lets you choose spending limits and control viewing of programs by rating and station.

DSS Receiver
with Access Card

Remote
Control

Size AA Batteries

Audio/Video Cable

RF Coaxial Cable

Phone Line

S-Video Cable

S-Video Cable

Check to make sure you've received the following items in the DSS receiver's carton:

The access card comes already inserted into the DSS receiver.

If you are missing items, contact the dealer from whom you purchased the DSS receiver.

Note

Keep the original carton and packing materials to safely transport the system in the future.

^{*} RF Antenna and S-Video cable not included with SAT-B2. SAT-A1 includes RM-Y130 remote control shown above; SAT-B2 includes RM-Y129 remote control shown on page 8.

Inserting Batteries into the Remote Control

Before you can use the remote control, you must first insert the supplied batteries. If you want to use this remote control to operate other video components, such as a TV or cable box, you must also program the remote as described in the Appendix on page 85.

To install the batteries:

1 Push and slide open the battery compartment.

SAT-A2 Remote Control:





SAT-B2 Remote Control:





Insert two size AA batteries (supplied). Be sure to line up the + and - on the batteries with the + and - on the battery compartment.

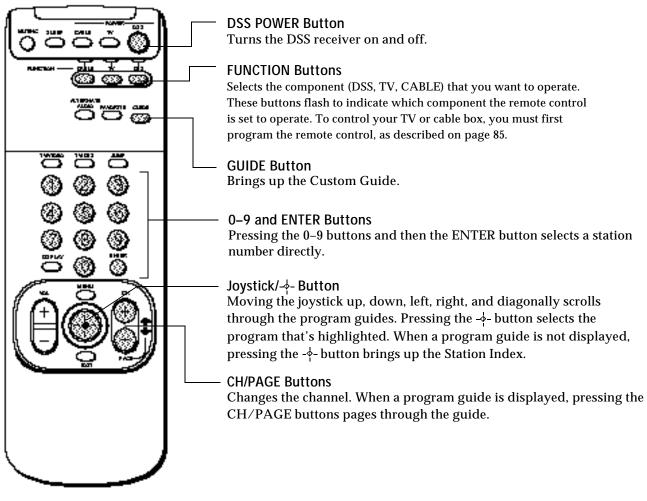
Notes on Batteries

- ☐ When the batteries become weak, the Function button indicator blinks. If the remote control does not operate properly, the batteries might be worn out. When replacing batteries, replace both of them with new ones, and do not mix different types of batteries together.
- ☐ When you remove the batteries to replace them, for example any codes you've set may be erased. If this happens, you must reprogram the remote. See "Programming the Remote Control" on page 85 for details.

Using Basic Functions

You can start watching programs using just a few buttons on the remote control. Here's an overview of the buttons you'll use most often.

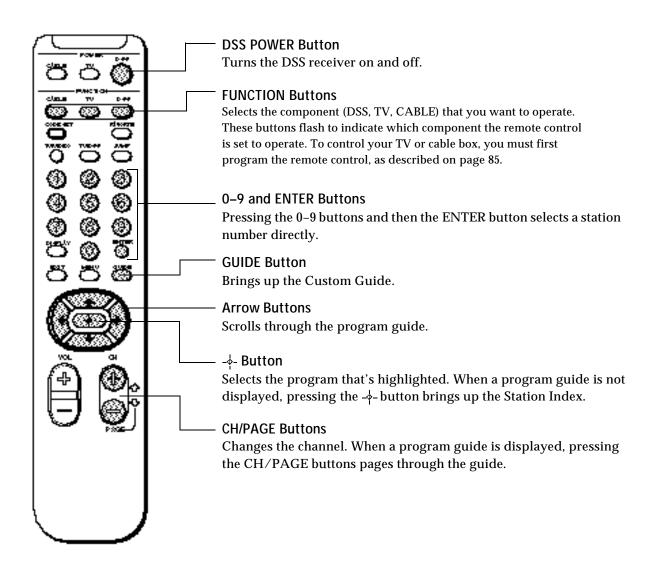
Remote Control for Model SAT-A2



See Also

- □ Pages 9–10 for a quick start to using the program guide and the Station Index.
- ☐ Chapter 4 for procedures for using the main system features.
- ☐ Pages 81–83 for a complete description of the buttons on the remote.

Remote Control for Model SAT-B2



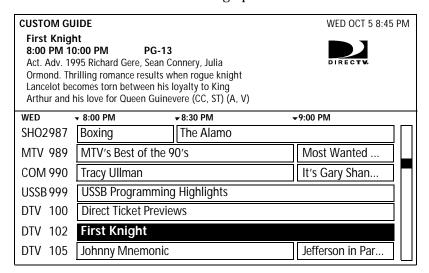
See Also

- ☐ Pages 9–10 for a quick start to using the program guide and the Station Index.
- ☐ Chapter 4 for procedures for using the main system features.
- ☐ Page 84 for a complete description of the buttons on the remote.

Using a Program Guide

The program guide displays the programming that's available from your program providers.

1 Press the GUIDE button to bring up the Custom Guide.



2 Move the highlight to the name of the program you want.

You'll hear the audio and see the video (in the background) of each program as they are highlighted.

The table below lists the various ways in which you can move around in the guide.

3 Press the -\(\phi\)- button to select the highlighted program.

Moving Around In a Program Guide

You can also change the look of the program guide by pressing the DISPLAY button. See "Using the DISPLAY Feature" on page 44.

In program guides, you can select station call letters/numbers to display a description of the station.

-	
To Do This	Use This Button
Go to other stations in the guide one station at a time	SAT-A2: Move the joystick up and down SAT-B2: Press the ↑ and ↓ buttons
Go to other time slots in the guide one program at a time	SAT-A2: Move the joystick left and right to move one time slot at a time. SAT-B2: Press the ← and → buttons Both Models: Or press the GUIDE button to "page" to future time slots.
Go to other stations in the guide one "page" at a time	Press the PAGE☆ (CH+) and PAGE圦 (CH-) buttons
Go to a station directly	Press the 0-9 buttons and press ENTER (to specify the station number)
Return to the last station you were watching	Press the EXIT button

Using the Station Index

Your Station Index may not look exactly like this. The stations displayed depend on the programming you've ordered. The Station Index lets you select a program from a grid of station logos and call letters.

Note

Before you can bring up the Station Index, you must first clear the program guide from your TV screen. Pressing EXIT removes all on-screen displays. Also, you may need to change to another station if a message appears, which requests that you press the -button to purchase the program, etc.

1 Press the --- button to bring up the Station Index.

STATION INDEX Sports Center							
206	207	208	DIRECT W. 209	DIRECTW 211	TNT 212	215	
мисн 216	220	222	224	DISC 225	TLC 226	CARTICON NETWORK 227	
USA NETWORK 229	TRIO 230	232	TBS 233	23 5	CM 236	240	

2 Move the highlight to the station you want.

The program title is displayed at the top of the Station Index. Also, you'll hear the audio and see the video (in the background) of each program, as they are highlighted.

The table below lists the various ways in which you can move around in the Station Index.

3 Press the -\(\phi\)- button to tune to the program that's highlighted.

Moving Around In the Station Index

You can also change the look of the Station Index by pressing the DISPLAY button. See "Using the DISPLAY Feature" on page 44.

To Do This	Use This Button
Go to other stations in the guide, one station at a time	SAT-A2: Move the joystick in any direction $SAT-B2$: Press the \blacksquare \blacksquare buttons
Go to other stations in the Station Index, one "page" at a time	Press the PAGE① (CH+) and PAGE贝 (CH-) buttons
Go to a station directly	Press the 0-9 buttons and press ENTER (to specify the station number)
Return to the last station you were watching	Press the EXIT button

Connecting Your System

Read this chapter to set up your DSS receiver for the first time, or to add or remove audio or video components connected to your system.

Overview

	You can connect the DSS receiver in a variety of configurations. The answers to the following questions will determine how you hook up and operate your DSS receiver. For example:
	 □ Do you have cable TV or a broadcast (terrestrial) TV antenna? □ What type of connectors do your TV and VCR have: S-VIDEO, A/V (RCA-type), or RF coaxial?
	☐ Do you plan to integrate your DSS receiver with your audio or video system?
General Recommendations	Detailed hookup instructions are provided on the pages that follow. For optimum audio and video performance, follow these general recommendations as much as possible when hooking up your components:
	☐ If you have an audio or audio/video system, consider integrating the DSS receiver into a home entertainment configuration to take advantage of your hi-fi system's audio capabilities.
	☐ If your TV has an S-VIDEO jack, use it to connect your TV to the DSS receiver. An S-Video connection provides a better picture than RCA-type video or RF connections.
	☐ If your TV does not have an S-VIDEO jack, use your TV's A/V connectors to connect your components. An A/V connection provides a better picture and audio when compared to an RF connection.
	☐ If you have other Sony components that include CONTROL-S jacks, you can connect these components via their CONTROL-S jacks in order to pass remote control signals between the DSS receiver and these components. This allows you to hide components behind cabinet doors.
	☐ If you have a Sony TV that has the S-Link feature, you can connect it to the DSS receiver's S-LINK connector to simplify the operation of your system. Using S-Link, when you turn on the DSS receiver with the TV's remote control, it automatically turns on the TV and switches the video input to DSS. When you press the SYSTEM OFF button on the TV's remote control, it turns off both the TV and the DSS receiver. (See your TV manual for more details.)
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TV With RF Connector Only

Refer to the illustration below (SAT-A2 receiver is pictured).

Connect the RG-6 cable from the satellite antenna's LNB to the DSS receiver's SATELLITE IN jack.

2 Connect the DSS receiver's VHF(SAT)/UHF OUT jack to the TV's VHF/UHF IN jack.

Some TVs label this jack RF IN, instead of VHF/UHF IN.

Note

A VHF/UHF connection does not provide stereo sound. To receive stereo sound, you must use an A/V connection (described on page 13).

- Connect one end of the telephone line cord to the DSS receiver's TEL LINE jack. Connect the other end to your home's modular telephone outlet.
- 4 Connect one end of the AC power cord to the DSS receiver's AC IN jack. Connect the plug end to an AC outlet.

Satellite Receiver 2 3 Telephone RG-6 Cable Coaxial AC CORD from LNB Cable T٧ SAT-A2 receiver is pictured, but connections are identical for SAT-B2.

Optional Connections

- ☐ If you have a cable input, cable box, or a terrestrial TV antenna, connect it to the DSS receiver's VHF/UHF IN jack.
- ☐ To connect the DSS receiver to your audio system, use audio cables to connect the DSS receiver to your audio receiver's AUDIO IN jacks.

TV With A/V Connectors

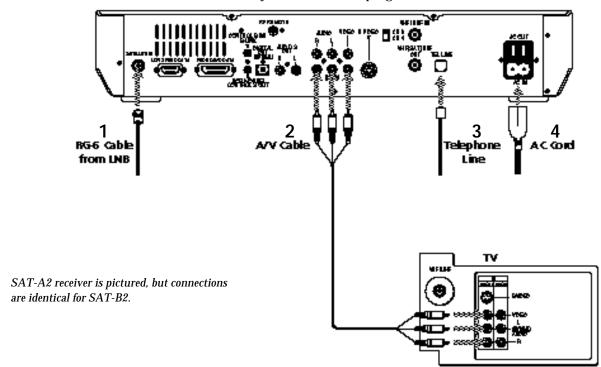
If your TV has only one AUDIO IN jack, connect the lower (mono) AUDIO L jack

on the DSS receiver to the TV's AUDIO

IN jack.

Refer to the illustration below (SAT-A2 receiver is pictured).

- Connect the RG-6 cable from the satellite antenna's LNB to the DSS receiver's SATELLITE IN jack.
- Connect the DSS receiver's A/V jacks to the TV's A/V IN jacks.
- Connect one end of the telephone line cord to the DSS receiver's TEL LINE jack. Connect the other end to your home's modular telephone outlet.
- Connect one end of the AC power cord to the DSS receiver's AC IN jack. Connect the plug end to an AC outlet.



Optional Connections

Some TVs label this jack RF IN, instead of VHF/UHF IN.

- If you have a cable input, cable box, or a terrestrial TV antenna, connect it to the TV's VHF/UHF IN jack.
- Best Connection: If your TV has an S-VIDEO jack, use an S-VIDEO cable to connect the DSS receiver's S-VIDEO jack to the TV's S-VIDEO IN jack. This provides the best picture quality. Then use audio cables to connect one set of the DSS receiver's audio jacks to the TV's AUDIO IN jacks.
- To connect the DSS receiver to your audio system, use audio cables to connect the DSS receiver to your audio receiver's AUDIO IN jacks.

Some VCRs and TVs label this jack RF

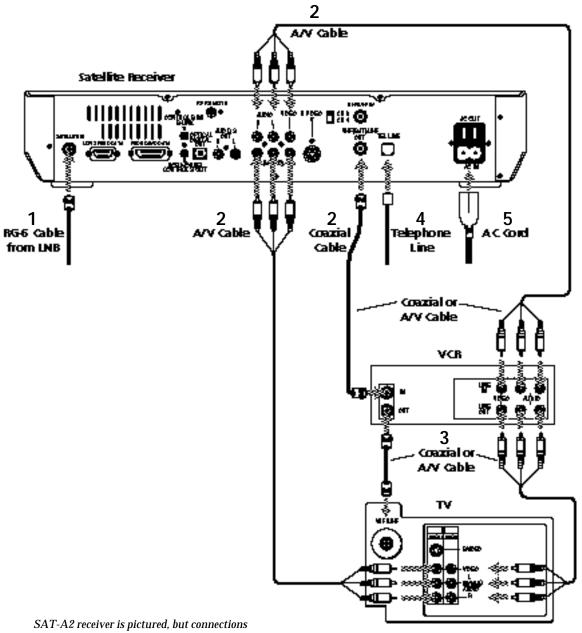
IN, instead of VHF/UHF IN.

Refer to the illustration on the opposite page (SAT-A2 receiver is pictured). Connect the RG-6 cable from the satellite antenna's LNB to the DSS receiver's SATELLITE IN jack. **2** Complete one of the following to connect the DSS receiver: ☐ *Better Connection*: Connect the DSS receiver's A/V jacks to the A/V IN jacks on the TV and VCR. If your VCR has only one AUDIO IN jack (monoaural VCR), connect it to the lower (mono) AUDIO L jack on the DSS receiver. ☐ *Good Connection*: Connect the DSS receiver's VHF(SAT)/UHF OUT jack to the VCR's VHF/UHF IN jack. Complete one of the following to connect the VCR to the TV: ☐ Better Connection: If both your TV and VCR have A/V jacks, connect the VCR's A/V OUT jacks to the TV's A/V IN jacks. ☐ *Good Connection*: If your TV or VCR has only an RF jack, connect the VCR's VHF/UHF OUT jack to the TV's VHF/UHF IN jack. **4** Connect one end of the telephone line cord to the DSS receiver's TEL LINE jack. Connect the other end to your home's modular telephone outlet. Connect one end of the AC power cord to the DSS receiver's AC IN jack. Connect the plug end to an AC outlet. **Optional Connections** ☐ If you have a cable input, cable box, or a terrestrial TV antenna, connect it to the TV or VCR's VHF/UHF IN jack. Best Connection: If your TV has an S-VIDEO jack, use an S-VIDEO cable to connect the DSS receiver's S-VIDEO jack to the TV's S-VIDEO IN jack. This provides the best picture quality. Then use audio cables to connect one set of the DSS receiver's audio jacks to the TV's AUDIO IN jacks. ☐ To connect the DSS receiver to your audio system, use audio cables to connect the DSS receiver to your audio receiver's AUDIO IN

Note

If the screen appears fuzzy, the program you are watching may be protected by Macrovision. Turn the VCR off to improve the picture quality.

☐ If you are using the VCR Mouse, see page 20 for setup instructions.



are identical for SAT-B2.

Hi-Fi TV, Hi-Fi VCR, Audio Receiver (SAT-A2 Only)

Refer to the illustration on the opposite page.

- Connect the RG-6 cable from the satellite antenna's LNB to the DSS receiver's SATELLITE IN jack.
- **2** Connect the DSS receiver's audio OUT jacks to the audio receiver's audio IN jacks.
- **3** Connect the DSS receiver's AV jacks to the A/V IN jacks on the TV.
- **4** Complete one of the following to connect the DSS receiver to the VCR:
 - ☐ Better Connection: Connect the DSS receiver's A/V jacks to the A/V IN jacks on the VCR.
 - ☐ *Good Connection*: Connect the DSS receiver's VHF(SAT)/UHF OUT jack to the VCR's VHF/UHF IN jack.
- Complete one of the following to connect the VCR to the TV:
 - ☐ *Better Connection*: If both your TV and VCR have A/V jacks, connect the VCR's A/V OUT jacks to the TV's A/V IN jacks.
 - ☐ Good Connection: If your TV or VCR has only an RF jack, connect the VCR's VHF/UHF OUT jack to the TV's VHF/UHF IN jack.
- **6** Connect one end of the telephone line cord to the DSS receiver's TEL LINE jack. Connect the other end to your home's modular telephone outlet.
- 7 Connect one end of the AC power cord to the DSS receiver's AC IN jack. Connect the plug end to an AC outlet.

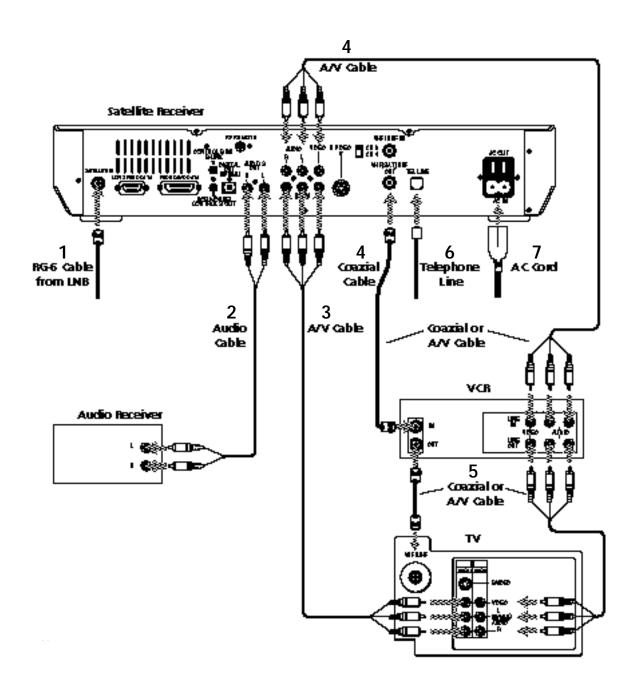
Optional Connections

- ☐ If you have a cable input, cable box, or a terrestrial TV antenna, connect it the VCR's VHF/UHF IN jack.
- ☐ Best Connection: If your TV has an S-VIDEO jack, use an S-VIDEO cable to connect the DSS receiver's S-VIDEO jack to the TV's S-VIDEO IN jack. This provides the best picture quality. Then use audio cables to connect one set of the DSS receiver's audio jacks to the audio receiver's AUDIO IN jacks.
- ☐ If you are using the VCR Mouse, see page 20 for setup instructions.

Note

If the screen appears fuzzy, the program you are watching may be protected by Macrovision. Turn the VCR off to improve the picture quality.

Some VCRs and TVs label this jack RF IN, instead of VHF/UHF IN.



Home Entertainment System (Hi-Fi TV, Hi-Fi VCR, Audio/Video Receiver)

Refer to the illustration on the opposite page (SAT-A2 receiver is pictured).

- 1 Connect the RG-6 cable from the satellite antenna's LNB to the DSS receiver's SATELLITE IN jack.
- **2** Connect the DSS receiver's A/V jacks to the VCR and A/V receiver's A/V IN jacks.
- **3** Connect the VCR's A/V OUT jacks to one set of the A/V receiver's A/V IN jacks.
- **4** Connect the A/V receiver's MONITOR OUT jack to the TV's VIDEO IN jack.
- **5** Connect one end of the telephone line cord to the DSS receiver's TEL LINE jack. Connect the other end to your home's modular telephone outlet.
- **6** Connect one end of the AC power cord to the DSS receiver's AC IN jack. Connect the plug end to an AC outlet.

Optional Connections

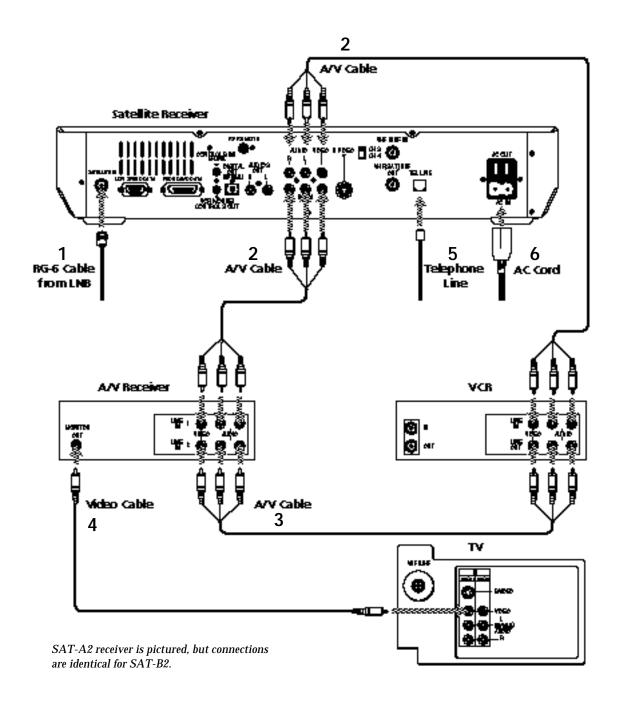
Some VCRs label this jack RF IN, instead of VHF/UHF IN.

- ☐ If you have a cable input, cable box, or a terrestrial TV antenna, connect it to the VCR's VHF/UHF IN jack.
- ☐ Best Connection: If your A/V receiver has an S-VIDEO jack, use an S-VIDEO cable to connect the DSS receiver's S-VIDEO jack to the A/V receiver's S-VIDEO IN jack. Then connect an S-VIDEO cable from the A/V receiver to the TV's S-VIDEO IN jack. This provides the best picture quality. Then use audio cables to connect one set of the DSS receiver's audio jacks to the A/V receiver's AUDIO IN jacks.
- ☐ If you are using the VCR Mouse, see page 20 for setup instructions.

Note

If the screen appears fuzzy, the program you are watching may be protected by Macrovision. Turn the VCR off to improve the picture quality.

In this configuration, the A/V receiver must be turned on in order to pass the video signals through to your TV.



Connecting the VCR Mouse

SAT-A2 receiver is pictured, but connections are identical for SAT-B2.

The VCR Mouse works with the DSS receiver's Timer function to automatically start and stop the recording function of your VCR.

1 Connect the VCR Mouse to the DSS receiver's VCR MOUSE/ CONTROL S OUT jack. Then place the VCR Mouse on top of and slightly overhanging the <u>front</u> of the VCR. For best results, place the VCR Mouse directly above the VCR's IR receiving area.

Satellite Receiver VCR Mouse VCR Mouse

2 Find the three-digit code number for your VCR in the table below. If more than one code number is listed, use the number listed first to complete step 3.

Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Sony*	301, 302, 303	Hitachi	304, 305	Samsung	313, 321, 322
Bell & Howell	343	JVC	314	Scott	312
Daewoo	341	Magnavox	308, 309, 310	Sharp	327, 328
Emerson	316, 317, 318, 319, 320	Mitsubishi	323, 324, 325, 326	Shintom	315
Fisher	330, 333, 334, 335	NEC	336, 337	Symphonic	338
General Electric	304, 329	Panasonic	306, 307	Teknica	338, 342
Go-Video	339, 340	Philips	310	Toshiba	311
Goldstar	332	RCA	305	Zenith	331

^{*}Code 301 is the default code for Sony VHS VCRs; for Sony 8mm VCRs, use code 302; for Sony Beta, ED VCRs, use code 303.

- 3 Using the buttons on the VCR Mouse: 1) Press the SET button,2) Enter the three-digit code number, 3) Press the ENTER button.
- 4 To check that the code is correct, press the 1 button on the VCR Mouse. If the VCR turns on and off each time you press 1, the code number is correct.

If the VCR Mouse doesn't seem to be working correctly, first check that the VCR Mouse is positioned directly above the VCR's IR receiving area. If it's still not working, try this procedure again using the other codes listed for your VCR. For more troubleshooting information, see page 90.

To use the VCR Mouse:

1) Set the DSS Timer (page 38), 2) Turn on the VCR and set the VCR's line input to the DSS receiver, 3) Insert a tape, 4) Turn off the VCR.

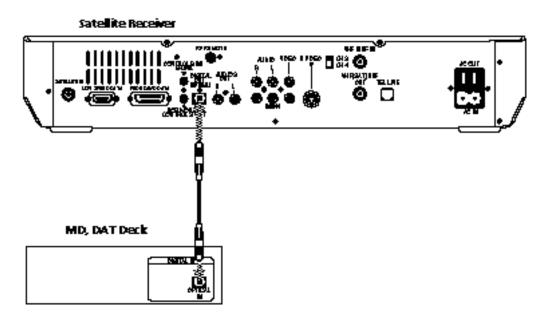
Connecting Digital Audio Components (SAT-A2 Only)

The digital audio output connector allows you to connect a digital audio component that has a digital optical audio input connector, such as a MiniDisc (MD) or digital audio tape (DAT) recorder.

The digital audio component must have a digital input frequency of 48 kHz. Check your component's instruction manual to determine the digital input frequency of your component.

To connect a digital audio component:

☐ Connect the DSS receiver's DIGITAL OUT connector to the audio component's digital audio input connector, using the component's digital optical cable.



Setting Up the RF Antenna (SAT-A2 Only)

The RF (radio frequency) antenna enables the remote control to operate the DSS receiver even if the receiver is located in another room or is placed behind a cabinet door. In other words, with the RF feature, the remote control does not require a direct line-of-sight to the front panel of the DSS receiver.

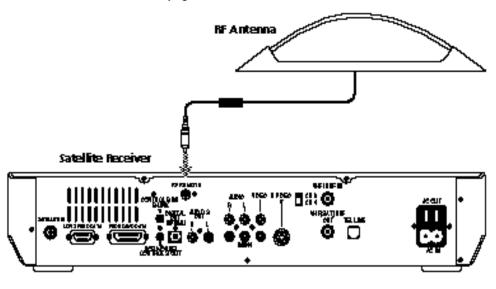
Note

You must set up the RF antenna if you plan on using the RF feature.

To set up the RF antenna:

- 1 Connect the RF antenna to the DSS receiver's RF REMOTE jack.
- Place the RF antenna at least one foot away from the DSS receiver.
- Use the on-screen displays to set up the DSS receiver to accept RF transmission (RF ONLY). See "Setting Up the Remote Control" on page 71 for details.

The DSS receiver is shipped with IR transmission enabled and RF transmission disabled. To use the RF feature, you must first change the factory setting (IR ONLY) to the RF setting (RF ONLY) using the on-screen displays, as described on page 71.



The operating range of the DSS remote control is about 100 ft. This may decrease due to ambient radio wave conditions, your room's walls, weak batteries, etc.

Do not place the RF antenna directly on top of the DSS receiver or any other metal

object. For best results, place the RF

antenna in a visible location.

Optional Setup

☐ The RF antenna can be mounted to a wall using the enclosed screws or by using two pieces of double-sided tape (supplied).

Setting Up Your DSS System

Viewing Satellite Programs

- Turn on the TV, and then set the TV's line input to the DSS receiver. (For example, set the TV to channel 3 or 4, if you used an RF connection; or set to VIDEO1, etc., if you used an A/V connection.)
- **2** Turn on the VCR and A/V receiver, if you connected these components. Then set their output switches accordingly.
- Turn on the DSS receiver and select a station.

Viewing Cable or **Off-Air Programs**

The following instructions apply only if you connected your cable TV or terrestrial antenna to your DSS receiver.

- Turn off your DSS receiver, or press the TV/DSS button to set the DSS receiver to TV mode.
- **2** Turn on the TV and then:
 - ☐ If you have a cable box, turn it on and then tune the TV to the output channel of your cable box, usually channel 3 or 4.
 - ☐ If you do not have a cable box, just tune your TV to the station you want to watch.

Recording Satellite Programs While Watching Cable or Off-Air Programs

The following instructions apply only if you connected your cable TV or terrestrial antenna to your DSS receiver.

- Turn on the TV and then:
 - ☐ If you have a cable box, turn it on and then tune the TV to the output channel of your cable box, usually channel 3 or 4.
 - ☐ If you do not have a cable box, tune your TV to the station you want to watch.
- 2 Turn on the DSS receiver, and tune to the program you want to record. Then set the VCR to line input or channel 3 or 4, and start recording, according to your VCR's instruction manual.
- **3** Press the TV/DSS button to set the DSS receiver to TV.

The DSS receiver's signal is sent to the VCR, while the off-air signal is sent to your TV for you to watch.

For information on using the DSS receiver's automatic timer, see "Setting Up the Timer" on page 38.

You cannot record one satellite program while watching another satellite program (unless you have a second DSS receiver).

If the screen appears fuzzy, the program you are watching may be protected by Macrovision. Turn the VCR off to improve the picture quality.

Using the System Features

Read this chapter to learn how to use system features including the Master program guide, Station Index, Favorite Station Guide, and the ordering of pay-per-view programs.

Overview

s chapter provides detailed instructions for using the main features your DSS receiver. Topics include:
Checking to make sure your system is completely set up and ready to be used (page 25).
Using Highlight and Select, the simple, two-step process for operating the on-screen displays (page 26).
Displaying and navigating through the program guide (page 27).
Selecting subscription and pay-per-view programs from the program guides (page 31).
Using the program list (page 32).
Selecting other program guides that are sorted by category and subcategory (page 33).
Using the Station Index (page 36).
Setting the Timer (page 38).
Using the five Favorite Station Guides (page 40).
Displaying the Program Banner (page 43).
Using the DISPLAY feature (page 44).

Before You Get Started ...

Make sure you (or your DSS system installer) have completed the following procedures before you start using your DSS receiver:

1 Install the satellite antenna, as described in the Satellite Antenna Installation Manual.

Note

Make certain that you (or your DSS system installer) have optimized the signal strength. If the signal is not optimized, you may experience losses in audio or video, especially during rain, snow, or other conditions that tend to degrade signal performance. See the Satellite Antenna Installation Manual for details on pointing the dish and optimizing the antenna's signal strength.

2 Connect the satellite antenna to your DSS receiver. Then connect the receiver to your television and telephone line. (See Chapter 3.)

Note

Your phone line must be connected to the DSS receiver in order for you to purchase a pay-per-view program with the DSS remote control.

- Make sure the access card is inserted into the DSS receiver. The receiver comes with the card already inserted. (See page 68 for details on inserting the access card.)
- Call your program providers (DIRECTV and USSB) to activate your service. You'll need to provide information, including the model and serial numbers of your DSS receiver and the access card number.

DIRECTV® 1-800-DIRECTV (347-3288)

USSB 1-800-204-USSB (8772)

If Your System Is Not Completely Installed ... See the manual that came with the satellite antenna and Chapter 3 of this manual for complete installation instructions. Or, see your DSS dealer to arrange for a professional installation or the purchase of the Sony-brand DSS Installation Kit.

Using the On-Screen Displays: Highlight and Select

All of the features and functions of the DSS receiver can be operated using a simple, two-step process: Highlight and Select. These two steps are explained below.

Step 1: Highlight

☐ To highlight, move the joystick (*SAT-A2*) or press the arrow buttons (SAT-B2) on the remote to move the on-screen highlight to the item that you want to select.

Step 2: Select

☐ After you've highlighted the item that you want, select it by

Example: Highlight and Select

In the sample menu that follows, moving the joystick up (SAT-A2) or pressing the **†** button (*SAT-B2*) moves the highlight from ITEM 5...

SAMPLE MENU					
ITEM 1	ITEM 2	ITEM 3			
ITEM 4	ITEM 5	ITEM 6			
ITEM 7	ITEM 8	ITEM 9			

... to ITEM 2.

SAMPLE MENU		
ITEM 1	ITEM 2	ITEM 3
ITEM 4	ITEM 5	ITEM 6
ITEM 7	ITEM 8	ITEM 9

2 Pressing the ---- button selects ITEM 2.

You can apply this basic operation of highlighting and selecting to perform any of the system's functions.

Shortcut

(SAT-A2 Only) In many of the on-screen displays you can move the joystick in eight directions: left, right, up, down, and diagonally (up left, up right, down left, and down right).

Displaying the Program Guide

You can select programs using the CH+ and CH- buttons, or you can enter the station number directly using the 0-9 buttons. However, because DSS offers you such a variety of programming choices, you'll get the most out of the system by using one of the on-screen program guides to find the programs you want to watch.

To display the Master Guide:

☐ Press the MENU button to bring up the Main Menu. Then highlight and select MASTER GUIDE from the menu.

MAIN MEN	IU				
SELECT GUIDE	1	MASTER GUIDE	2	SELECT LIST	3
MOVIES GUIDE	4	EXIT	5	MOVIES LIST	6
OPTIONS N	JENU 7	TIMER SETUP	8	SETUP MEN	บ 9

Note

To bring up the Custom Guide, press the GUIDE button on the remote control. See "Setting Up a List of Custom Stations" on page 57 for details.

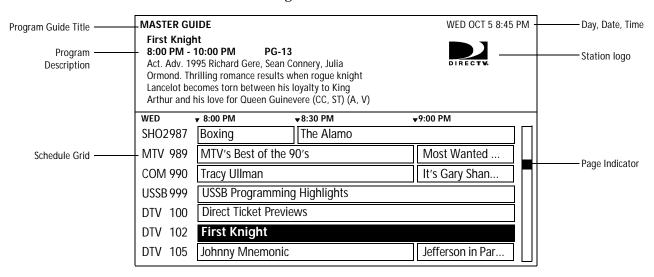
Features of the program guide are discussed in more detail on the following pages.

Shortcut

You can select menu items directly by pressing the corresponding number button. For example, press 2 to select the Master Guide from the Main Menu.

Features of the Program Guide

When you select a guide from the Main Menu or press the GUIDE button on the remote, a program guide appears, similar to the following:



Program guides, such as the Master Guide shown above, feature a variety of elements, including:

- ☐ Program guide title, such as Master Guide, Custom Guide, Movie Guide, Sports Guide, etc.
- Current day of the week, date and time.
- ☐ Station logo (when available) and program description of the currently highlighted station.
- □ Schedule grid, which includes:
 - Station names, numbers, and program titles. These appear in ascending numerical order from top to bottom (unless you have changed the listing to alphabetical order. See "Setting the Station Order" on page 49 for details).
 - □ Time slots. These appear left to right, with the current time's programming in the leftmost position.
 - Page indicator. This shows you approximately which page you're on, relative to all the pages in the guide. The size of the indicator is proportional to the overall size of the entire program guide.

Moving Through the Program Guide

	The on-screen program guides are displayed only one page at a time. Because the program guide usually contains many pages, you need to move through the guide to see more of the programs contained in the guide. You can move by scrolling, paging, and direct station tuning.				
Scrolling	To scroll, use the remote control to move the highlight one position at time. You can scroll to different stations or time slots.				
	To move to other stations in the guide one station at a time: \Box <i>SAT-A2</i> : Move the joystick up or down.				
	\square <i>SAT-B2</i> : Press the up or down arrow buttons.				
	To move to other time slots in the guide: □ SAT-A2: Move the joystick left or right.				
	□ <i>SAT-B2</i> : Press the left or right arrow buttons.				
Paging Vertically Through the Stations	To page, use the PAGE buttons to move through the guide one page at a time. This allows you to move through the guide more quickly than scrolling.				
	To page through the guide: □ Press the PAGE☆ or PAGE⇩ buttons.				
	The PAGE $\mathbolde{\mathbolde{\Omega}}$ button pages in the down direction. The PAGE $\mathbolde{\mathbolde{Q}}$ button pages in the down direction.				
Paging Through Later Program Start Times	To display future time slots in the guide: ☐ Press the GUIDE button.				
	Pressing the GUIDE button repeatedly cycles through all the available time slots in the guide as they are made available by your program providers (for example, THU 3:00 PM, THU 10:00 PM, FRI 3:00 AM, etc.).				
	Note To select a future program guide directly, press the MENU button and then select SELECT GUIDE/TIME. See page 33 for details.				
Direct Station Tuning	To move to a station directly: ☐ Press the 0-9 buttons to specify the station number. Press the ENTER button to change the station more quickly.				

Displaying Favorite Stations	□ Press the FAVORITE button.		
	Pressing the FAVORITE button repeatedly cycles through the stations currently set for the five Favorite Station Guides (FAVORITE 1, 2, 3, 4, 5), and then back to the normal guide.		
	Note See page 40 for instructions on setting up your favorite stations.		
Changing the Appearance of the Guide	To toggle through the three variations of program guide: ☐ Press the DISPLAY button repeatedly. (See "Using the DISPLAY Feature" on page 44 for details.)		
Exiting the Guide	There are two ways to exit the program guide: Select a program from the guide by pressing the		
	☐ Press the EXIT button on the remote. You will be returned to the last program you were watching before the program guide was displayed.		

Selecting a Program from the Guide

For all programs except pay-per-view (PPV), you can select a program from the guide just by pressing the -\$\dphi\$- button. If the program is currently showing, the guide disappears and the program you selected appears.

If the program has not yet started, a pop-up window appears, which gives you the option of adding the program to the Timer list, returning to the program guide, or tuning to the current program on that station. See "Setting Up the Timer" on page 38 for details on using the Timer.

Watching a PPV program is similar, except it requires you to order the program before you can watch it beyond the free preview period (usually about five minutes after the program starts).

Ordering Pay-Per-View **Programs**

Selecting RETURN returns you to the previous screen, without purchasing the program.

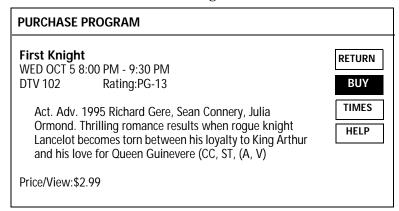
Selecting TIMES brings up a list of additional show times that you can choose from for the program you selected.

A PREVIEW button, which gives you a free preview of the program, appears only when the preview is available.

If the BUY button does not appear (and the message "Purchase information not available" appears), you must call your program provider to order the program.

To order a PPV program listed in the program guide:

- Highlight the program name in the guide and press the -∳- button.
- Select BUY from the Purchase Program screen.



When the Confirm Purchase pop-up window appears, select YES to confirm your purchase. Selecting NO returns you to the Purchase Program screen, without purchasing the program.

If the program has not yet started, a pop-up window appears, which gives you the option of adding the program to the Timer list, returning to the program guide, or tuning to the current program on that station. See "Setting Up the Timer" on page 38 for details on using the Timer.

To watch a PPV program you've purchased in advance, just tune to the station when the program is about to start. Your program providers will bill you automatically.

About Copy-Protection

Some PPV programs are copy-protected by Macrovision at the discretion of the copyright owner. When watching a PPV program, turn the VCR off to ensure a quality picture.

Selecting a Program List

The buttons that appear for each program indicate start times.

For example, in this sample Movie List, "First Knight," with a start time of 9:00PM, is highlighted.

To select a program, highlight the start time button and then press the $\neg \varphi$ -button.

The Program List displays programs alphabetically by program title, as opposed to the Guide format, which sorts the programs numerically by station number. A sample Movies List is shown below.

MOVIES LIST			WED	OCT 5 8	3:45 PM
First Knight 9:00 PM - 11:00 PM PG-13 Act. Adv. 1995 Richard Gere, Sean Connery, Julia Ormond. Thrilling romance results when rogue k Lancelot becomes torn between his loyalty to Ki Arthur and his love for Queen Guinevere (CC, ST	night ng		DIRE	ECTV.	
	WED 9 PM	9:30	10 PM	10:30	
The Alamo					$\triangleright \sqcap$
Aspen					\triangleright L
Bad Boys					
First Knight					
Free Willy 2: The Adventure					
Johnny Mnemonic					$\triangleright \Box$
Judge Dredd (Letterbox)					Í

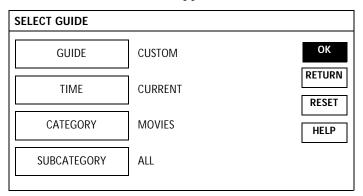
To display a Program List, select MOVIES LIST from the Main Menu. To set up a different program category for the Program List, see "Selecting a Different Program Guide or List" on page 33.

"Se	electing a Different Program Guide or List" on page 33.
To	move to other programs in the list one program at a time: <i>SAT-A2</i> : Move the joystick up or down.
	<i>SAT-B2</i> : Press the up or down arrow buttons.
То	move to other time slots in the list:
	SAT-A2: Move the joystick left or right.
	<i>SAT-B2</i> : Press the left or right arrow buttons.
То	page through the list:
	Press the PAGE分 or PAGE圦 buttons.
To	toggle through the three variations of lists: Press the DISPLAY button repeatedly. (See "Using the DISPLAY Feature" on page 44 for details.)
То	exit the list:
	Select a program from the list by pressing the
	Or
	Press the EXIT button on the remote. You will be returned to the last program you were watching before the list was displayed.

Selecting a Different Program Guide or List

You can use the SELECT GUIDE and SELECT LIST options in the Main Menu to select subsets of the Master Guide in either the Guide or List format.

- 1 Press the MENU button to bring up the Main Menu.
- **2** Select SELECT GUIDE or SELECT LIST from the Main Menu. The Select Guide (or List) screen appears.



Select a different Guide, Time, Category, and Subcategory, described as follows.

The GUIDE and TIME options are not available when you select SELECT LIST.

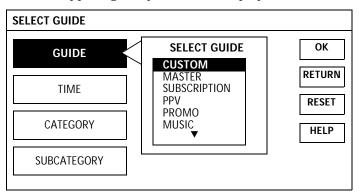
Selecting RESET resets the screen to the default guide (Custom/Current/Movies/

Selecting a Guide Type

The GUIDE option lets you select from a list of alternative program guides, which are made available by your program providers. These guides may contain groups of stations with similar subjects, for example, special promotions or pay-per-view programs.

To select a guide type:

- Select GUIDE from the Select Guide screen.
- Select the type of guide you want to display.



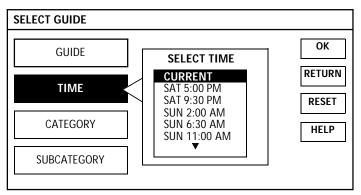
Select OK to display the selected program guide, or select different options for time, category, or subcategory.

Selecting a Guide Time

The TIME option lets you select from a list of future program guides.

To select a future program guide:

- Select TIME from the Select Guide screen.
- Select the time you want to display.



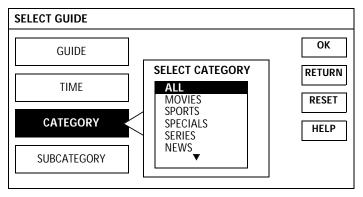
Select OK to display the selected program guide, or select different options for guide, category, or subcategory.

Selecting a Guide Category

The CATEGORY option lets you select from a list of program guide categories.

To select a program guide category:

- Select CATEGORY from the Select Guide screen.
- Select the program category you want to display.



3 Select OK to display the selected program guide, or select different options for guide, time, or subcategory.

Selecting a Guide Subcategory

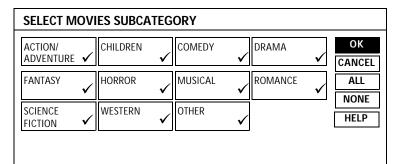
The SUBCATEGORY option lets you select from a list of program guide subcategories, based on the selected program category.

Note

You cannot select SUBCATEGORIES if CATEGORY is set to ALL.

To select a program guide subcategory:

- Select SUBCATEGORY from the Select Guide screen. The Select Subcategory screen appears.
- **2** Select the program subcategories you want (you can select more than one subcategory). A selected subcategory appears with a checkmark (\checkmark) beside it. To deselect a subcategory, just select it again. The checkmark disappears. After you've made your selections, select OK to return to the Select Guide screen.



Select OK to display the selected program guide, or select different options for guide, category, or subcategory.

The next time you display the Main Menu, it will include the Guide or List category that you selected. To change category selections, select SELECT GUIDE or SELECT LIST from the Main Menu.

How SELECT GUIDE and SELECT LIST Change the Main Menu

Selecting ALL places a checkmark beside all

the subcategories. Selecting NONE removes the checkmark from all the subcategories.

Selecting CANCEL returns you to the

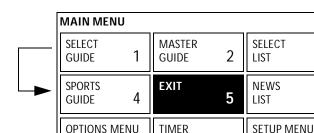
previous screen, without saving your

selections.

The selections you make using SELECT GUIDE and SELECT LIST affect the program categories displayed in the Main Menu. The category you select using SELECT GUIDE changes button 4 of the Main Menu. The category you select using SELECT LIST changes button 6 of the Main Menu.

This feature allows you to recall the last program guide or list that you selected.

8



SETUP

Example: If you select the Sports Guide using SELECT GUIDE, button 4 of the Main Menu automatically changes to SPORTS GUIDE.

Similarly, button 6 of the Main Menu automatically updates to the last selection you made using SELECT LIST.

3

6

9

Using the Station Index

The Station Index is an on-screen display that contains the station logo (or call letters) of all the stations in the system.

Note

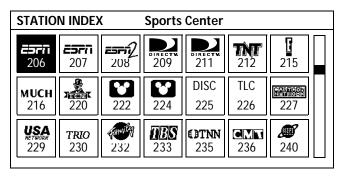
Before you can bring up the Station Index, you must first clear the program guide from your TV screen. Pressing EXIT turns off the on-screen displays. Also, you may need to change to another station if a message appears, which requests that you press the -\dot\- button to purchase the program, etc.

To display the Station Index:

□ Press the → button.

The Station Index appears. The station you are currently tuned to is automatically highlighted and program title is displayed at the top.

Your Station Index may not look exactly like this. The stations displayed depend on the programming you've ordered.



Moving Through the Station Index

To move through the Station Index:

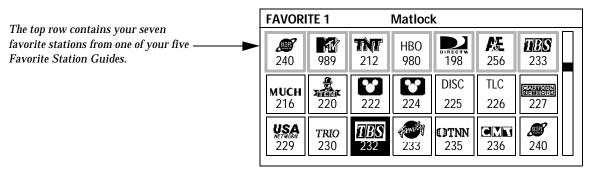
- \square Move the joystick (*SAT-A2*) or press the arrow buttons (SAT-B2) to move one station at a time.
- ☐ Press the PAGE分 or PAGE圦 buttons to page (move up or down several rows at a time).
- ☐ Enter the station number, using the 0-9 buttons and press ENTER.

Displaying Favorite Stations in the Station Index

To display your favorite stations on the top row of the Station Index:

☐ Press the FAVORITE button.

Pressing the FAVORITE button repeatedly cycles through the five Favorite Station Guides.



Note

See page 40 for instructions on setting up your favorite stations.

Changing the Appearance of the Station Index

To toggle through the three variations of Station Index:

☐ Press the DISPLAY button repeatedly. (See "Using the DISPLAY Feature" on page 44 for details.)

Selecting a Program from the Station Index

To select a program:

☐ Press the - button to tune to the highlighted station. The Station Index disappears.

To exit the Station Index without changing stations:

☐ Press the EXIT button. The Station Index disappears, and you return to the station you were watching before displaying the Station Index.

Setting Up the Timer

You can select from two ways to automate VCR recording of DSS programs:

- □ Setting the DSS Timer and then setting your VCR timer.
- □ Setting the DSS Timer and using the Sony VCR Mouse to automatically control the VCR (see "Connecting the VCR Mouse" on page 20 for details).

Setting the Timer

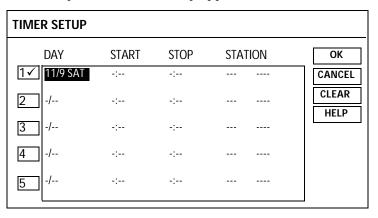
To set the timer:

- **1** Press the MENU button to bring up the Main Menu.
- **2** Select TIMER SETUP. The Timer Setup screen appears.

Shortcut

You can automatically add future programs to the Timer screen by just selecting them from the program guide. See "Selecting a Program from the Guide" on page 31 for details.

3 Select one of the 10 timer setting buttons. Then highlight the DAY field (today's date automatically appears).



If you've entered the Timer Setup screen by selecting a future program from a program guide, the Day, Start and Stop times, Station, and program title are displayed automatically. However, if you make any changes to the Timer Setup options, the program title disappears (although the Timer will still work as you've set it).

- **4** Set the day, start time, stop time, and station number as follows:
 - □ To set each item (day, time, etc.), move the joystick up or down (SAT-A2) or press up or down arrow buttons (SAT-B2).
 - □ To move to the next or previous item, move the joystick right or left (*SAT-A2*) or press the right or left arrow buttons (*SAT-B2*).

Note

You can set the timer up to 30 days in advance. You can also set the timer for every day or for the same day(s) every week. See "Setting the Daily/Weekly Timer" on page 39.

5 Select OK to save your settings.

Setting the Daily/Weekly Timer

To set the timer for every day or for the same day(s) every week:

In step 4 (page 38), move the highlight down repeatedly to select one of the DAY options, which are displayed in the following sequence:

Current Date → DAILY → MON-FRI → EVERY SAT ... → EVERY MON → EVERY SUN → 1 Month Later → (Cycles backward) → Current Date

2 Set the start time, stop time, and channel, then select OK to save your settings.

Changing/Checking/ **Clearing Timer Settings**

To change, check, or clear timer settings:

- Bring up the Timer Setup screen, as described on page 38.
- **2** Check your settings.
 - □ If you don't want to make any changes, select OK.
 - If you want to change or clear settings, select the numbered button of the timer setting you want to change.
- Change or clear the setting as follows:
 - □ To change the setting, highlight the item you want to change. Then reset the item by moving the joystick up or down (SAT-A2) or press up or down arrow buttons (SAT-B2).
 - □ To clear the setting, select CLEAR.
- **4** Select OK to save your settings.

Notes on Using the Timer

- ☐ After the timer is set, the TIMER indicator on the front panel lights, indicating that the timer has been set.
- To use the timer to record a PPV program, you must first purchase it in advance of its showing. See "Ordering Pay-Per-View Programs" on page 31.
- ☐ If locks and limits are set (and the system is locked), check to make sure they do not conflict with the program you're trying to record.
- ☐ About 60 seconds before the timer automatically tunes to the specified channel, a message appears. To cancel the timer setting and continue watching the current program, press the EXIT button.
- ☐ If you set overlapping (conflicting) timer settings, the DSS receiver handles these timer settings as follows:
 - □ If you set two timer settings to start at the same time, the timer setting that's listed first has priority over any other conflicting timer settings. Conflicting timer settings are automatically cleared from the Timer Setup screen when the first timer setting is activated.
 - □ If you set a second timer setting to start before the first timer setting is set to stop, the second timer setting will start before the first timer setting stops.

Using the Favorite Station Guides

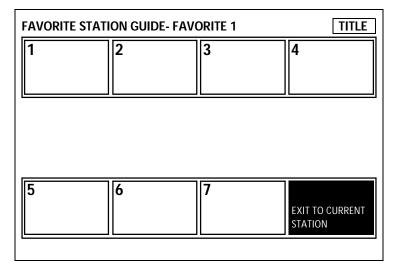
The Favorite Station Guide is a program guide that includes up to seven of your favorite stations. You can create up to five Favorite Station Guides: FAVORITE 1, 2, 3, 4, 5.

Setting Up and Using the Favorite Station Guides

Before you can bring up the Favorite Station Guide, you must first clear the program guide from your TV screen. Pressing EXIT turns off any on-screen displays.

To set up the Favorite Station Guide:

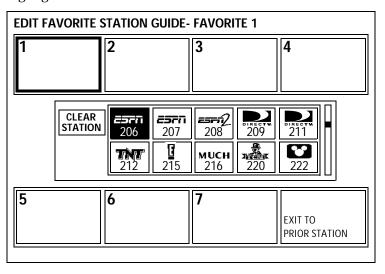
1 Press the FAVORITE button. The first Favorite Station Guide appears (FAVORITE 1).



The system is shipped with no favorite stations set, so the first time you see this guide, the seven Favorite Station buttons are blank.

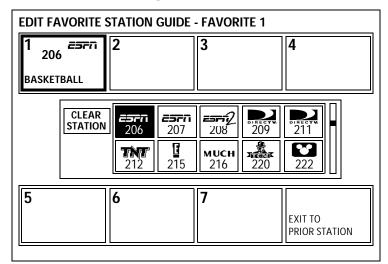
2 Highlight a Favorite Station button that you want to set. Then press <u>and hold</u> the -∳- button.

The Favorite Station Guide switches to edit mode: The station list appears, the selected Favorite Station button flashes, and the highlight moves to the current station in the station list.

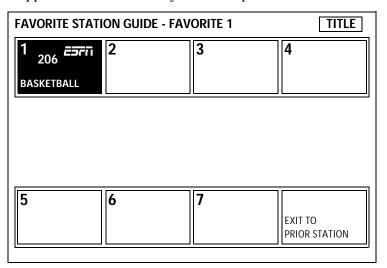


- To assign a station to the flashing Favorite Station button, do one of the following:
 - Select it from the station list by highlighting it and then pressing the -\psi - button.
 - □ Enter the station number (such as 206), using the 0-9 buttons on the remote. Then press the -∳- button.

To clear a Favorite Station button that is already assigned, select CLEAR STATION.



The station list disappears, and the Favorite Station Guide reappears with the stations you've set up.



To set other Favorite Station buttons:

 \square Repeat steps 2 and 3.

To clear a Favorite Station button setting:

Overwrite the setting by repeating steps 2 and 3. Or, highlight the button and then select CLEAR STATION.

To set up or display a different Favorite Station Guide:

☐ Press the FAVORITE button repeatedly to select the Favorite Station Guide you want (FAVORITE 1, 2, 3, 4, 5).

To tune to a Favorite Station (and exit the Favorite Station Guide):

☐ Press the number button that represents the station. Or highlight and then select the Favorite Station button that you want to tune to.

To exit the Favorite Station Guide without changing stations:

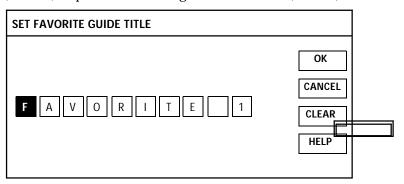
□ Select "Exit to Current Station," which appears in the bottom right corner of the Favorite Station Guide or press the EXIT button.

Creating a Custom Favorite

To create a custom title for the Favorite Station Guide:

- **1** Select TITLE from the Favorite Station Guide. The Set Favorite Guide Title screen appears.
- **2** To edit the title, move the joystick up or down (*SAT-A2*) or press the up or down arrow buttons (SAT-B2) to enter each character.

To move from character to character, move the joystick left or right (SAT-A2) or press the left or right arrow buttons (SAT-B2).



3 Select OK to save your new title and return to the Favorite Station Guide.

Station Guide Title

Selecting CANCEL returns you to the previous screen, without saving your selections.

Selecting CLEAR erases all the characters in the title.

Displaying the Program Banner

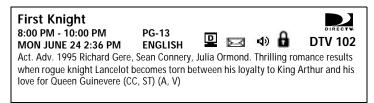
The program banner provides useful information about the program you're currently watching.

Note

Before you can bring up the program banner, you must first clear the program guide from your TV screen. Pressing EXIT turns off any on-screen displays. Also, you may need to change to another station if a message appears, which requests that you press the -\dot\- button to purchase the program, etc.

To display the program banner:

☐ Press the DISPLAY button.



The program banner shows the program title, station name and number, current date and time, start and end times, rating, and program description. It may also include any of the following indicators:

Symbol	Indicates	For Details See
D	Data services available	page 63
3	New and unread messages	page 61
43	Alternate audio tracks available	page 59
A	System is locked	page 52
3	System is temporarily unlocked	page 55

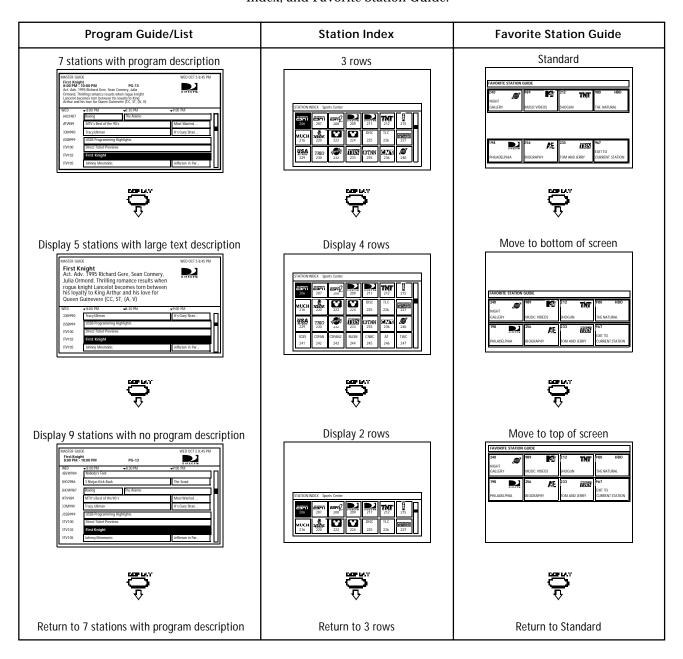
To clear the program banner:

☐ Press the DISPLAY or EXIT button or wait a few seconds for it to automatically disappear.

Using the DISPLAY Feature

You can use the DISPLAY button to change the appearance of the onscreen displays.

The chart below illustrates how the DISPLAY button toggles through the three types of displays of Program Guides (and Lists), Station Index, and Favorite Station Guide.



Using the Options Menu

Read this chapter to get information about using the Options Menu to customize the setup of the on-screen displays, review and cancel your purchases, and read mail messages that have been sent to you.

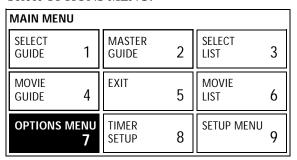
Overview

Thi	s chapter describes how to:
	Check and cancel pay-per-view programs you've ordered (page 47).
	Change the look of the program guides, including the color and transparency level of the on-screen displays and the order in which the stations are displayed (page 48).
	Setting up and using the Jump Loop feature (pages 50–51).
	Set system locks and limits, which allow you to control program viewing by ratings, spending amount, and station (page 52).
	Create a Custom Guide by selecting stations from the Master Guide that you want to skip (page 57).
	Select an alternate audio track for the program you're currently watching and set a default language for the audio of programs (page 59).
	Read mail messages that have been sent to your DSS receiver (page 61).
	Select a data service for stations that include data services offered by your program providers (page 63).

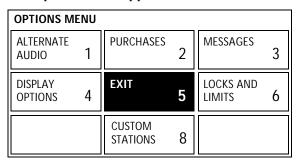
Displaying the Options Menu

To bring up the Options Menu:

- Press the MENU button to bring up the Main Menu.
- Select OPTIONS MENU.



The Options Menu appears.



The following pages describe how to use the Options Menu to your system's setup.

Checking and Cancelling PPV Purchases

Use the Review/Cancel Purchases screen to see a record of recent purchases you've made through your DSS receiver. You can also use this screen to cancel pay-per-view (PPV) programs you've ordered, but haven't yet watched.

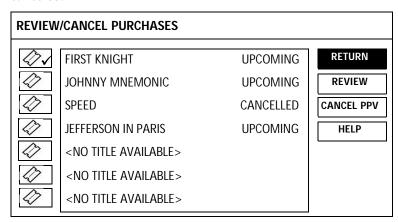
Note

The Review/Cancel Purchases screen lists only purchases made using the DSS receiver's remote control. It doesn't include purchases made by calling your program provider.

To display the Review/Cancel Purchases screen:

Select PURCHASES from the Options Menu. The Review/Cancel Purchases screen appears, which lists the programs purchased and canceled.

If there are more than one page of purchases, press the PAGE 1 and $PAGE \bigcirc buttons$ to page through the displays.



- **2** To review the details of a pay-per-view program you've purchased:
 - □ Select the program you want to review. Then select REVIEW.

To cancel a pay-per-view program you've ordered:

- ☐ Select the program you want to cancel. Then select CANCEL PPV.
- Select RETURN to return to the Options Menu.

Note

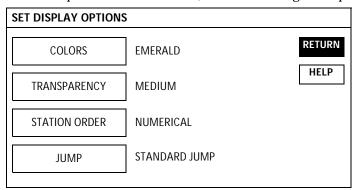
Once you tune to a purchased program, you cannot cancel its purchase.

Setting Display Options

The Set Display Options screen allows you to customize the look of the on-screen displays and to select how you want the JUMP button to function (Standard or Jump Loop).

To bring up the Set Display Options screen:

- Select DISPLAY OPTIONS from the Options Menu.
 The Set Display Options screen appears, with the current settings shown next to each button.
- **2** Select an option from the screen (see the following descriptions).



Setting the Colors

The COLORS option lets you change the color palette of the on-screen displays. The default color is EMERALD.

- 1 Select COLORS from the Set Display Options screen. The Set Colors screen appears.
- **2** To preview a color, move the highlight. The Set Colors screen automatically changes to reflect the color that's highlighted.

SET COLORS

EMERALD MAJESTIC PACIFIC RUGBY

CANCEL

USA REGAL INDIGO CANDY

HELP

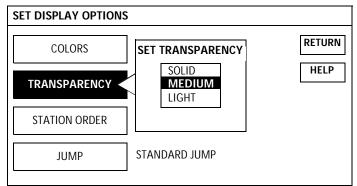
- **3** To change the color, select a different color and then select OK to return to the Set Display Options screen.
- **4** Select RETURN to return to the Options Menu.

Selecting CANCEL returns you to the previous screen, without saving your selections.

Setting the Transparency

The TRANSPARENCY option lets you select from three levels of transparency for the on-screen displays. The default setting is MEDIUM.

- **1** Select TRANSPARENCY from the Set Display Options screen.
- **2** Select a transparency option.

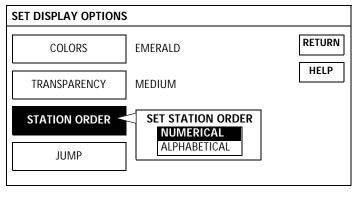


3 Select RETURN to return to the Options Menu.

Setting the Station Order

The STATION ORDER option lets you change the order in which stations are displayed in the program guides to alphabetical or numerical. The default setting is NUMERICAL.

- **1** Select STATION ORDER from the Set Display Options screen.
- **2** Select NUMERICAL or ALPHABETICAL.



3 Select RETURN to return to the Options Menu.

ALPHABETICAL station order defines the sequence of the stations according to their call letters, such as ABC, CNN, etc. It does not define the sequence of stations by program name.

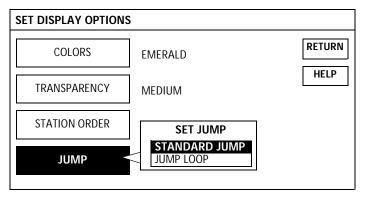
Setting the Jump Mode

The JUMP option lets you select from two Jump modes:

- ☐ Standard Jump, which sets the JUMP button to jump back and forth between the two most recently selected stations.
- ☐ Jump Loop, which sets the JUMP button to jump among as many as 5 preset stations (see "Using the Jump Loop Feature" on page 51 for details on presetting stations).

To set the Jump Mode:

- **1** Select JUMP from the Set Display Options screen.
- **2** Select STANDARD JUMP or JUMP LOOP.



3 Select RETURN to return to the Options Menu.

Using the Jump Loop Feature

Standard Jump Vs. Jump Loop Mode

When the DSS receiver is set to Standard Jump mode, pressing the JUMP button toggles back and forth between the two most recently selected stations.

When the DSS receiver is set to Jump Loop mode, pressing the JUMP button toggles among as many as 5 stations that you assign to a Jump Loop. Once you assign a station to the Jump Loop, you can use the JUMP button to quickly toggle through all the stations in the loop.

Using Jump Loops

To set jump stations:

- 1 Set the DSS receiver to Jump Loop mode, as described on page 50. (You need to do this only the first time you create a Jump Loop.)
- Tune to a station you want to assign to the Jump Loop.

Note

You cannot set jump stations while a program guide, menu, etc., is being displayed.

- **3** Press and hold the JUMP button. A message appears, indicating that the station has been assigned to the Jump Loop.
- 4 To set additional jump stations, repeat steps 2 and 3 of this procedure.

If you set more than 5 jump stations, the sixth jump station automatically overwrites the first jump station in the loop, and so on.

To jump through the Jump Loop:

☐ Press the JUMP button repeatedly. The stations are displayed in the order they were set.

To clear a station from the Jump Loop:

Tune to the station you want to clear from the Jump Loop.

Note

You cannot clear Jump stations while a program guide, menu, etc., is being displayed.

- **2** Press <u>and hold</u> the JUMP button. A message appears, indicating that the station has been cleared from the Jump Loop.
- To clear additional Jump stations, repeat steps 1 and 2 of this procedure.

Note

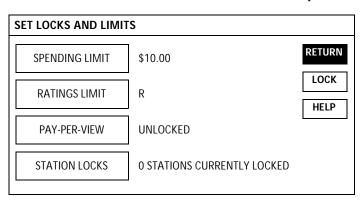
Jump Loops are cleared automatically when you shut off the DSS receiver.

Setting Locks and Limits

The Locks and Limits feature gives you control over the use of your system. You can restrict program viewing by cost, ratings, and station. You can also set a lock to prevent the ordering of pay-per-view programs.

To display the Locks and Limits screen:

- **1** Select LOCKS AND LIMITS from the Options Menu. The Set Locks and Limits screen appears, with the current settings shown next to each button.
- **2** Select a lock or limit from the screen (see the descriptions below).



If your system is locked, the padlock symbol appears (A), and you must first unlock it before you can make any changes to the locks and limits settings. See "Unlocking Your System" on page 56 for details.

Your DSS receiver is shipped to you unlocked, with the default settings as described below.

Spending Limit	Lets you set a maximum spending limit for a single pay-per-view program. When the system is locked, you cannot purchase a program that costs more than the amount set. The default setting is $\$10.00$.
Ratings Limit	Allows you to set a maximum ratings limit. When the system is locked, you cannot view programs rated higher than the rating set. The default rating is <i>R</i> .
Pay-Per-View	Allows you to prevent PPV purchases. When the system and the PPV option are locked, pay-per-view programs cannot be purchased. The default setting is <i>unlocked</i> .
Station Locks	Lets you prevent the viewing of stations that you lock. When the system is locked, programs that appear on locked stations cannot be viewed. The default is <i>no stations locked</i> .

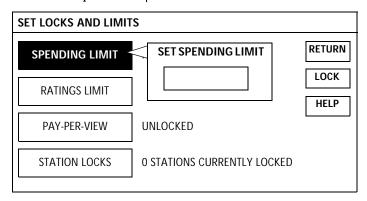
Note

After you've set a lock or limit, you must lock the system before any locks or limits take effect. Locking the system is described on page 55.

Setting a Spending Limit

To set a spending limit:

- Select SPENDING LIMIT from the Set Locks and Limits screen.
- Enter a spending limit, using the 0-9 buttons to enter the dollar value. Then press the -♦- button.

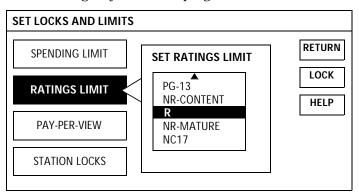


- **3** Select another lock or limit to set, or go to step 4.
- Lock your system, as described in "Locking Your System" on page 55.

Setting a Ratings Limit

To set a ratings limit:

- Select RATINGS LIMIT from the Set Locks and Limits screen.
- Select a rating, beyond which programs cannot be watched.

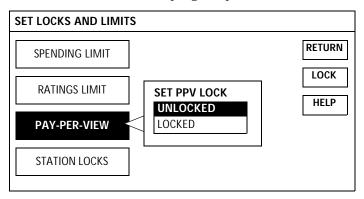


- Select another lock or limit to set, or go to step 4.
- Lock your system, as described in "Locking Your System" on page 55.

Setting the Pay-Per-View Lock

To set the pay-per-view lock:

- Select PAY-PER-VIEW from the Set Locks and Limits screen.
- Select LOCKED to prevent PPV program purchases. Select UNLOCKED to allow PPV program purchases.



- Select another lock or limit to set, or go to step 4.
- Lock your system, as described in "Locking Your System" on page 55.

Note

You can also set a PPV lock by setting the spending limit to \$0.00. See "Setting a Spending Limit" on page 53 for details.

Setting Station Locks

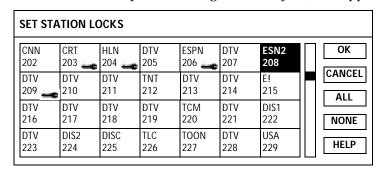
To set station locks:

- Select STATION LOCKS from the Set Locks and Limits screen.
- Select stations that you want to lock from viewing. A locked station appears with a key () beside it. For example, in the following screen, stations 203, 204, 206, and 209 have been locked.

To unlock a station, just select it again. The key () disappears.

To quickly unlock or lock all stations, select
ALL (to lock all) or NONE (to unlock all).
Selecting CANCEL returns you to the
previous screen, without saving your
selections.
^

You can use the PAGE 1 and the rows of stations. You can also use the 0-9 buttons to enter the station number directly.



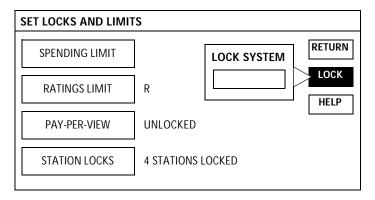
- Select OK to return to the Set Locks and Limits screen.
- Select another lock or limit to set, or go to step 5.
- Lock your system, as described in "Locking Your System" on page 55.

Locking Your System

To lock an unlocked system:

- Select LOCK from the Set Locks and Limits screen.
- Enter a four-digit passcode number. Use the 0-9 buttons to enter the numerical value.

DON'T FORGET YOUR PASSCODE. You'll need this number to unlock your system or to make any changes to the locks and limits you've set. If you do forget your passcode, call your program provider for assistance.



Each number you enter appears as an asterisk (*), which keeps your passcode secret.

When prompted, enter your passcode again. (This confirms your selection of a passcode number.)

Your system is now locked, as indicated by the closed padlock (\mathbf{A}) in the Set Locks and Limits screen. All locks and limits you've set are now in effect. The padlock also appears in the Program Banner to remind you of the locked status.

Overriding the System Lock

You can temporarily override any locks or limits that have been set if you know the system passcode.

For example, if you try to watch a program on a locked station, a button, the Temporary Unlock window appears. By entering the passcode and then selecting when you want the system to automatically relock, you can temporarily unlock the system.

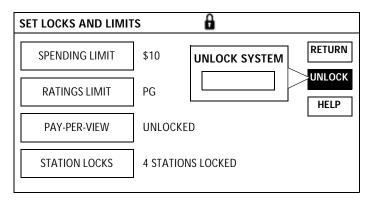
Note

If you override the system lock, you can reset the lock by turning the power off and then on again. If you want to unlock the system on a more permanent basis, follow the procedures under "Unlocking Your System" on page 56.

Unlocking Your System

To unlock a locked system:

- Select LOCKS AND LIMITS from the Options Menu.
 - The Set Locks and Limits screen appears, with the current settings shown next to each button. The padlock (\mathbf{a}) indicates that the system is currently locked.
- Select UNLOCK.
- Enter the passcode number you used to lock the system. Use the 0-9 buttons to enter the numerical value.



Each number you enter appears as an asterisk (*), which keeps your passcode secret.

Your system is now unlocked, and all locks and limits previously set are no longer in effect.

Determining the Status of the System Lock

While you're watching programs, you can check the status of the system lock by pressing the DISPLAY button to bring up the Program Banner, which includes the following lock symbols.

Symbol	System Lock Status
No padlock	Unlocked (default setting)
â	Locked
1	Temporarily unlocked using the system lock override

Setting Up a List of Custom Stations

If there are stations listed in the Master Guide that you don't subscribe to or watch often, you can use the Custom Stations feature to specify which stations from the Master Guide you want to skip. After you've set skipped stations, they will not appear in the:

- **Custom Guide**
- ☐ Station Index
- □ Stations that appear when you're using the CH+/CH- buttons to change channels

Note

Skipped stations will continue to be listed in the Master Guide, which you can always access through the Main Menu.

To define a list of custom stations:

- Select CUSTOM STATIONS from the Options Menu.
- Select stations that you want to skip.

A station that appears with a checkmark (\checkmark) beside it will be skipped. For example, in the following screen, stations 203, 208, and 213 are set to be skipped.

To set a station so that it is not skipped, just select it again. The checkmark (\checkmark) disappears.

SET CUSTOM STATIONS							
CNN	CRT	HLN	DTV	ESPN	DTV	ESN2	OK
202	203 ✓	204	205	206	207	208 /	
DTV	DTV	DTV	TNT	DTV	DTV	E!	AUTO
209	210	211	212	213 ✓	214	215	
DTV	DTV	DTV	DTV	TCM	DTV	DIS1	ALL NONE
216	217	218	219	220	221	222	
DTV	DIS2	DISC	TLC	TOON	DTV	USA	HELP
223	224	225	226	227	228	229	

To quickly skip or "unskip" stations, select ALL (to skip all) or NONE (to skip none).

Selecting CANCEL returns you to the previous screen, without saving your selections.

Note

Use the PAGE \uparrow and PAGE \downarrow buttons to quickly move through the rows of stations. You can also use the 0-9 buttons to enter the three-digit station number directly.

Select OK when you're finished setting skipped stations.

To see the results of your Custom Stations settings:

☐ Bring up Custom Guide, by pressing the GUIDE button, the Station Index (see page 36), or use the CH+/CH- buttons.

Using the AUTO Skip Feature

When you select the AUTO button, the DSS receiver automatically scans all the stations in the current Master Guide. During this scanning process, the DSS receiver determines which stations you are not authorized to watch and then sets these stations to be skipped. You can use this feature as a starting point to creating your own list of custom stations.

For example, if there are stations that appear in the Master Guide to which you do not subscribe, the AUTO function automatically marks these stations to be skipped. This saves you the trouble of having to determine which of the 150+ stations in the Master Guide you cannot view and then having to manually set each of these stations to be skipped.

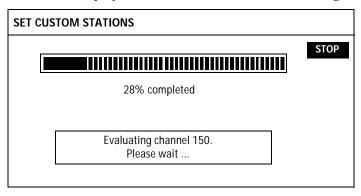
Note

The AUTO function does not skip pay-per-view stations.

To use the AUTO Skip feature:

- Select CUSTOM STATIONS from the Options Menu.
- Select the AUTO button.

The DSS receiver begins to evaluate all the stations in the Master Guide, and displays a status bar, similar to the following.



Note

This process may take a few minutes to complete.

When the DSS receiver is finished scanning, the station list reappears, with checkmarks (\checkmark) beside stations that are set to be skipped.

3 Select OK to save your selections. Or select additional stations to be skipped or unskipped.

You may want to re-run the Auto skip procedure periodically in case your program providers make changes or additions to their station lineups, or if you order new program subscriptions.

Selecting STOP interrupts the Auto Skip process and returns you to the previous screen, which displays the stations that have been set to be skipped thus far.

Selecting Alternate Audio

Your program providers may broadcast multiple audio tracks with a single video source. For example, a football game might use a different audio track for each sports commentator or a movie might include both English and Spanish language audio tracks.

How to Determine if **Alternate Audio Tracks Are** Available for a Program

To determine if an alternate audio track is available:

- Tune to the program.
- Press the DISPLAY button to bring up the Program Banner.

If the Program Banner includes the alternate audio symbol (41), this indicates that alternate audio tracks are available for that program.

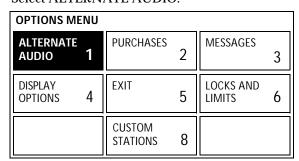
Selecting an Alternate **Audio Track**

Using the remote control (SAT-A2 only):

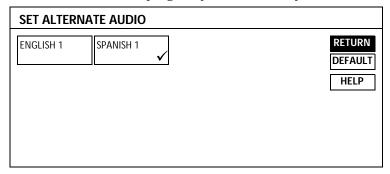
☐ Press the ALTERNATE AUDIO button repeatedly on the remote control. If more than two alternate audio tracks are available for the current program, the Set Alternate Audio screen automatically appears (see below).

Using the on-screen menus (SAT-A2/SAT-B2):

- Press the MENU button to bring up the Main Menu.
- Select OPTIONS MENU.
- Select ALTERNATE AUDIO.



The Set Alternate Audio screen appears, which lists only the audio tracks available for the program you are currently tuned to.



4 To change the audio track for the current program, select an audio track.

To change the default language for all programs, select DEFAULT. Then see "Setting a Default Language" below.

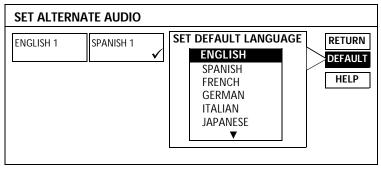
5 To save your changes and return to the Options Menu, select OK. Then select EXIT from the Options Menu to return to the program you were watching.

Setting a Default Language

Use the DEFAULT button to specify the language you want to hear for programs broadcast in multiple languages.

To set a default language:

- **1** Select DEFAULT from the Set Alternate Audio screen.
- 2 Select a default language.



3 Select RETURN to return to the Options Menu.

Note

If the default language you select is not available for a program that you tune to, you will not hear the default language. Instead, you'll hear one of the languages available for that program (usually English).

For example, if you set the default language to Spanish and a program is broadcast in English only, you'll automatically hear the audio in English.

Reading Your Messages

Occasionally, your program providers will send messages to your DSS receiver. These messages contain useful information about your system, such as information about new services, program promotions, or billing.

How to Determine When You've Received Mail

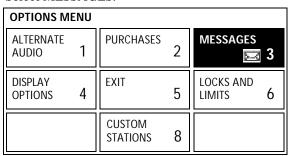
There are several ways to tell if you have unread mail:

- The DSS receiver's front panel MESSAGE indicator blinks.
- An envelope () appears in the Program Banner, accessed by pressing the DISPLAY button.
- ☐ An envelope (☐) appears in menu item 7 (Options Menu) of the Main Menu.

Displaying Your Messages

To display your messages:

- 1 Press the MENU button to bring up the Main Menu.
- Select OPTIONS MENU.
- 3 Select MESSAGES.

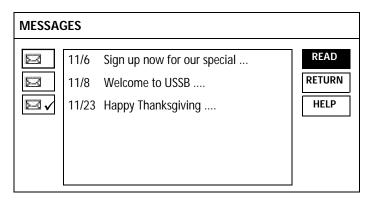


The message's date, along with the first few words of the message, appear.

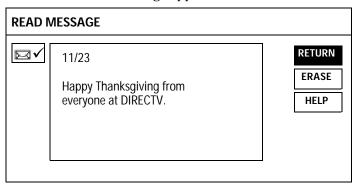
Reading a Message

To read a message:

Select the envelope from the Messages screen. A selected message appears with a checkmark (\checkmark) beside it. Then select READ.



The full text of the message appears.



2 To erase a message after you've read it, select ERASE. To keep a message after you've read it, select RETURN.

Note

Your mailbox can hold about 50 messages before exhausting the receiver's memory.

Selecting Data Services

In the future, your program providers may provide data services, which you can access through specific stations using the DSS receiver's wide band data and low-speed data ports. For details about using a data port to access these data services, call your program providers.

How to Determine if Data Services Are Available on a Station

To determine if data services are available on a specific station:

- Tune to the station.
- Press the DISPLAY button to bring up the Program Banner.

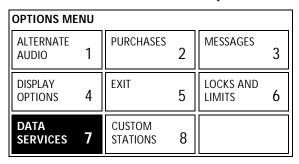
If the Program Banner includes the data services symbol (D), this indicates that data services are available for that specific station.

Selecting a **Data Service**

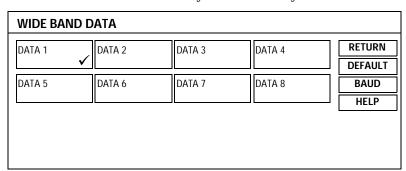
DATA SERVICES appears only when the station you're tuned to includes data services.

To select a data service:

Select DATA SERVICES from the Options Menu.



2 The Data Services screen appears, which lists only the data services that are available for the station you are currently tuned to.



Selecting CANCEL returns you to the previous screen, without saving your selections.

The screen will be titled "Wide Band" or "Low Speed," depending on which type of data service is available for that station.

The titles of the data services may be different, based on the service being provided.

3 Select one of the following:

To Do This	Do This
Change the data service for the current station only	Select the data service and then select RETURN.
Change the data service for all stations	Select DEFAULT (then see "Changing the Default Data Service" below).
Change the baud rate for the DSS receiver's wide band data port	Select BAUD (then see "Setting the Baud Rate" below).

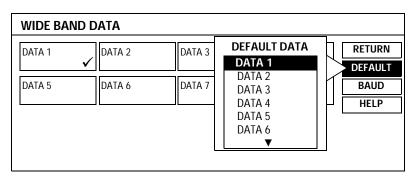
Changing the Default **Data Service**

Use the DEFAULT button to select a default data service for all stations that provide data services.

To change the data service for all stations:

- Select DEFAULT from the Data Services screen.
- 2 Select a default data service.

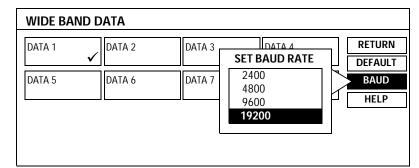
The titles of the data services may be different, based on the service being provided.



Setting the Baud Rate

To set the baud rate for the DSS receiver's data port:

- Select BAUD from the Data Services screen.
- Select a baud rate for the data port.



The baud rates displayed may be different, depending on which data port is

being used.

Using the Setup Menu

Read this chapter to set up your DSS receiver for the first time, check the antenna's signal strength, or to run a system test to diagnose any difficulties you may be having with your system.

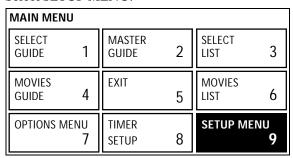
Overview

Setup Menu includes several options you can use to set up and ableshoot your system.
the Setup Menu to:
Set up and point your satellite antenna (page 67).
Replace your access card (page 68).
Change the aspect ratio of the DSS receiver to match your TV screen: standard or widescreen (page 70).
<i>SAT-A2 Only:</i> Change the DSS receiver to receive RF (radio frequency) remote control signals or IR (infrared) remote control signals (page 71).
Display a list of programmable codes for other components you may want to operate using the DSS remote control (page 74).
Run a system test to check the operation of your system, including the access card, phone line, satellite signal, and tuning (page 75).
Display helpful troubleshooting information (page 76).
Get hints and shortcuts on using your digital satellite system (page 76).

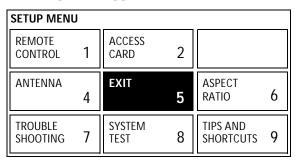
Displaying the Setup Menu

To set up your system, first bring up the Setup Menu, as follows:

- **1** Press the MENU button to bring up the Main Menu.
- **2** Select SETUP MENU.



3 The Setup Menu appears:



The following pages describe how to use the Setup Menu to set up your system.

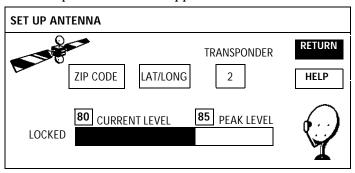
Setting Up the Satellite Antenna

To install the satellite antenna, or to check the current signal level of the antenna, use the Set Up Antenna screen.

Note

Make certain that the signal strength of the satellite antenna is optimized. If the signal is not optimized, you may experience losses in audio or video, especially during rain, snow, or other conditions that tend to degrade signal performance. See the Satellite Antenna Installation Manual for details on using the Set Up Antenna screen to point the dish and optimize the antenna's signal strength.

- Select ANTENNA from the Setup Menu.
- The Set Up Antenna screen appears.



Selecting RETURN returns you to the Setup Menu.

> To determine the elevation and azimuth settings for the satellite antenna. select ZIP CODE or LAT/LONG.

- □ **ZIP CODE** uses your five-digit zip code to determine the elevation and azimuth settings.
- ☐ LAT/LONG uses your location's latitude and longitude to determine the azimuth and elevation settings.
- ☐ The **Signal Strength Meter** indicates the current signal strength of the antenna.
- ☐ The **Transponder** option allows you to select a transponder number from 1 to 32. You should not need to change this number (the default is 2) unless you're instructed to do so by your program provider.

See the Satellite Antenna Installation Manual for details on using the Set Up Antenna screen to point the dish and optimize the antenna's signal strength.

3 Select RETURN to return to the Setup Menu.

Replacing Your Access Card

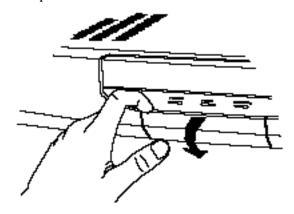
In the event that your program providers need to send you a new access card, use the Access Card option to initialize your new card. During this process, you'll follow the on-screen instructions to copy information from the old card onto the new card. After you initialize the new card, your old card becomes invalid.

To replace your access card:

1 Select ACCESS CARD from the Setup Menu.

SETUP MENU							
REMOTE CONTROL	1	ACCESS CARD	2				
ANTENNA	4	EXIT	5	ASPECT RATIO	6		
TROUBLE SHOOTING	7	SYSTEM TEST	8	TIPS AND SHORTCUTS	9		

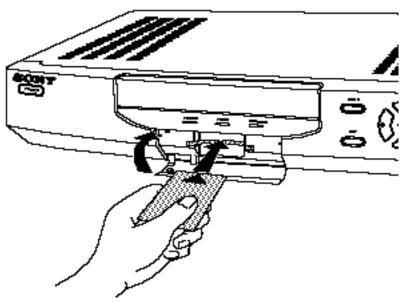
- 2 When the Replace Access Card screen appears, insert your old access card, if you removed it, as follows:
 - lacktriangle Open the door to the access card: Place your fingertip in the slot as shown (or carefully use the edge of a coin), and gently pull the door down.



Caution

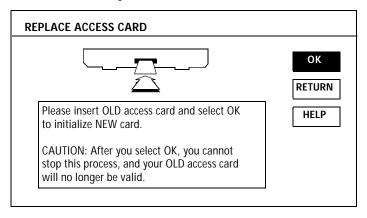
Handle the access card door gently.

☐ Insert the card, arrow side up, as shown, and gently push the door up to close it.



Selecting RETURN returns you to the Setup Menu, without starting the initialization process.

Select OK from Replace Access Card screen.



4 Follow the instructions as they are displayed to complete the procedure.

When the message "Replace Access Card Procedure Complete" appears, select OK to return to the Setup Menu.

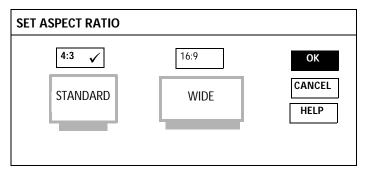
Setting the Aspect Ratio

Use the Aspect Ratio option to set the DSS receiver's display to match your TV 's picture.

To set the aspect ratio:

- **1** Select ASPECT RATIO from the Setup Menu.
- $\boldsymbol{2}$ $\;$ Select one of the options, based on the type of TV you have:
 - ☐ If you have a standard TV, select 4:3.
 - ☐ If you have a wide-screen TV, select 16:9.

Selecting CANCEL returns you to the Setup Menu, without saving your selection.



 ${\bf 3}\quad {\bf Select\ OK\ to\ return\ to\ the\ Setup\ Menu}.$

Setting Up the Remote Control

SAT-A2 Only: The Set Up Remote screens let you set up the DSS receiver to accept IR (infrared) or RF (radio frequency) signals from the DSS remote control and to change the RF security code for the DSS receiver.

You can also use this screen to display a list of codes you can use to program the DSS remote control to operate other components, such as TVs and cable boxes.

Selecting IR/RF Transmission (SAT-A2 Only)

In addition to having IR remote control capability, your DSS system includes an RF feature, which enables the remote control to operate the DSS receiver even if the receiver is located in another room or is placed behind a cabinet door. In other words, with the RF feature, the remote control does not require a direct line-of-sight to the front panel of the DSS receiver.

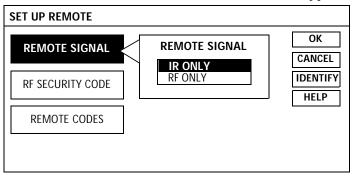
Note

You must set up the RF antenna to take advantage of the RF feature. See "Setting Up the RF Antenna (SAT-A2 Only)" on page 22 for details.

The DSS receiver is shipped with IR transmission enabled and RF transmission disabled. To use the RF feature, you must change the factory setting (IR ONLY) to the RF setting (RF ONLY).

To select IR or RF transmission:

- Select REMOTE CONTROL from the Setup Menu.
- Select REMOTE SIGNAL and select a transmission type (IR or RF).



Select OK to save your selections and return to the Setup Menu.

SAT-B2: REMOTE SIGNAL and RF SECURITY CODE options are not available.

Setting the Security Code (SAT-A2 Only)

If the DSS receiver is accepting or receiving signals from another RF remote control in your home (or from a neighbor's house), you can eliminate this problem by changing the security codes for the DSS receiver and remote control.

Note

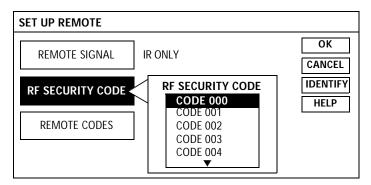
As an alternative, you can eliminate this problem by disabling the RF capability of the DSS receiver, if you have no need for RF transmission. See "Selecting IR/RF Transmission (SAT-A2 Only)" on page 71 for details.

There are two steps to changing the RF security code: Step 1 is changing the DSS receiver's security code; step 2 is changing the DSS remote control's security code. Both the receiver and the remote control must use the same three-digit security code.

Step 1: Select the DSS Receiver's RF Security Code

- Select REMOTE CONTROL from the Setup Menu.
- Select RF SECURITY CODE and then select a different security code.

The DSS receiver and remote control are shipped with the RF security code set to 000.



- **3** Select OK to save your changes and return to the Setup Menu.
- Go to "Step 2: Set the DSS Remote Control's RF Security Code" on page 73 to continue.

Step 2: Set the DSS Remote Control's RF Security Code

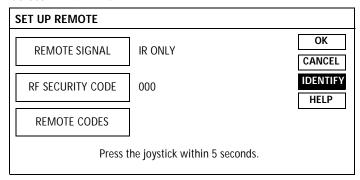
- **1** Press the CODE SET button on the DSS remote control.
- **2** Using the number buttons on the DSS remote control, enter the three-digit security code you selected for the DSS receiver in step 2 on page 72.
- Press the ENTER button on the remote control.

The RF security code is now changed for both the DSS receiver and remote control.

To Determine the Current Security Code for the DSS **Remote Control** (SAT-A2 Only)

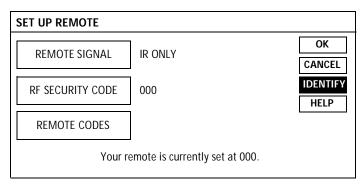
You can determine the current RF security code for the DSS remote control using the IDENTIFY button in the Set Up Remote screen.

- Bring up the Set Up Remote screen, as described on page 71.
- Select IDENTIFY.



When the message "Press the joystick within 5 seconds" appears, press the joystick before the 5 seconds expire.

The current RF security code for the DSS remote control appears.



Note

If the message, "Security code could not be identified" appears, check to make sure that RF is enabled and that the RF antenna is connected properly. See "Selecting IR/RF Transmission (SAT-A2 Only)" on page 71.

4 Select OK to return to the Setup Menu.

Displaying the **Programmable Codes**

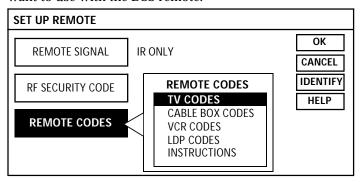
You can also use the Setup Remote screen to display a list of codes you can use to program the DSS remote control to operate other components, such as TVs and cable boxes.

Note

These code numbers and instructions are also described in "Programming the Remote Control" on page 85.

To display the list of programmable codes:

- Select REMOTE CONTROL from the Setup Menu.
- ${\bf 2} \quad {\bf Select\ REMOTE\ CODES\ and\ then\ select\ the\ type\ of\ component\ you}$ want to use with the DSS remote.



- **3** Scroll through the list that appears to find the remote codes for the the Set Up Remote screen.
- 4 To program the remote control, select INSTRUCTIONS and follow the on-screen instructions.
- Select OK to return to the Setup Menu.

SAT-A2: The SAT-A2 remote control can be programmed to control most brands of TVs, cable boxes, VCRs, and laserdisc (LDP) players.

SAT-B2: The SAT-B2 remote control cannot be programmed to control VCRs or laserdisc players.

Running a System Test

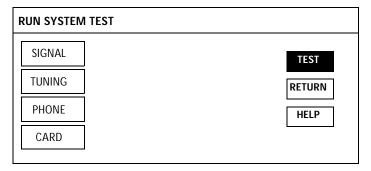
The System Test lets you check the integrity of your system's components, including:

- □ Antenna signal
- ☐ System tuning
- Phone line
- Access card

Use the System Test if you are experiencing problems with your system.

To run the System Test:

- Select SYSTEM TEST from the Setup Menu.
- 2 Select TEST.



The System Test checks all the components automatically, and displays the result of each test.

Select RETURN to return to the Setup Menu.

If The System Test Reports Any Problems...

Check your system for any of the following:

- ☐ The access card test will fail if you have not yet called your program providers to establish service. After your service has been established, the access card test should pass.
- ☐ Check that all cables are connected properly to the DSS receiver.
- ☐ Check that the satellite antenna is installed correctly, and that the signal has been optimized. See the manual that came with the satellite antenna for details.
- ☐ Check that the phone line connected to the DSS receiver is working properly.
- □ Check that the access card is inserted properly.

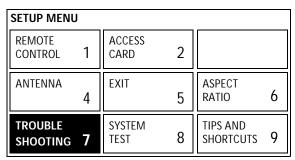
If you cannot resolve problems reported by the System Test, see "Customer Support" on page 2.

Displaying Help, Tips, and Shortcuts

Displaying Troubleshooting Information

To display troubleshooting information:

1 Select TROUBLESHOOTING from the Setup Menu.

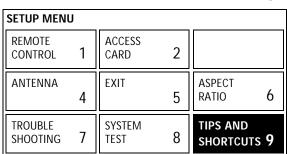


- **2** Select the topic for which you want information. Details of that topic are displayed.
- **3** Press the -\(\phi\)- button to return to the Troubleshooting screen.
- **4** Select RETURN to return to the Setup Menu.

Displaying Tips and Shortcut Information

To display tips and shortcut information:

1 Select TIPS AND SHORTCUTS from the Setup Menu.



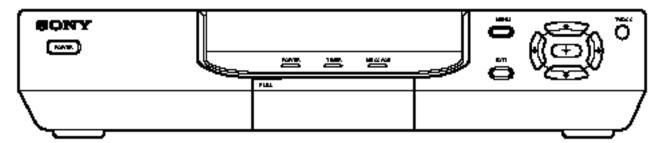
- **2** Select the topic for which you want information. Details of that topic are displayed.
- **3** Press the -\(\phi\)- button to return to the Tips and Shortcuts screen.
- **4** Select RETURN to return to the Setup Menu.

Other Information

ını	s appendix includes supplementary information, including:
	Locations and descriptions of the controls and indicators on the front and back panels of the DSS receiver (page 78).
	Remote control button descriptions (page 81).
	Programming the remote to operate your TV and other video components (page 85).
	Troubleshooting information (page 88).
	Precautions (page 91).
	FCC Information (page 92).
	Limited warranty (page 93).
	Specifications (page 94).
	Index (page 95).

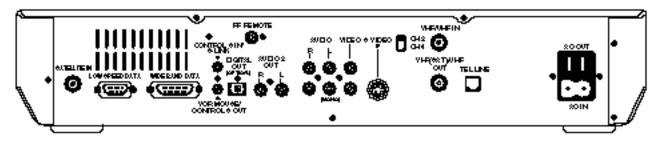
Location and Function of Controls

Front Panel



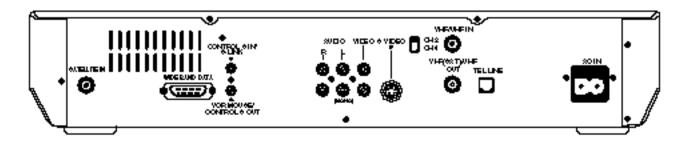
Button	Description
POWER Button	Turns the DSS receiver on and off.
MENU Button	Brings up the Main Menu.
EXIT Button	Clears all on-screen displays, including program guides, menus, etc. If you press EXIT before you complete your selections, the previous selections are restored.
0 <u>©</u> 0	The arrow buttons highlight items in the on-screen displays (program guides, menus, etc.). The
TV/DSS Button	Switches the output of the DSS receiver between TV (normal TV programs), if you've connected a TV cable or antenna, and DSS programs.
Power Indicator	Indicates whether the DSS receiver is on or off.
Timer Indicator	Indicates that the Timer is set.
Message Indicator	Flashes to indicate you have an unread message.

Back Panel (SAT-A2)



Connector	Description	Cable Type
SATELLITE IN	Connects to the LNB on the satellite antenna.	Solid Bare Copper RG-6 Coaxial (75-ohm/F-type)
LOW SPEED DATA	Allows you to connect your DSS receiver to new technologies, as they are introduced. Additional accessories may be required.	Depends on future applications (D-sub 9 pin)
WIDE BAND DATA	Allows you to connect your DSS receiver to new technologies (such as high-definition television), as they are introduced. Additional accessories may be required.	Depends on future applications (D-sub 15 pin)
CONTROL-S IN/ S-LINK	Allows you to pass on remote control signals to another Sony infrared-controlled audio or video component.	Audio mono or stereo miniplug
VCR MOUSE/ CONTROL-S OUT	Allows you to pass on remote control signals to another Sony infrared-controlled audio or video component. Also used to connect the Sony VCR Mouse.	Audio mono or stereo miniplug
DIGITAL OUT (OPTICAL)	Allows you to connect your DSS receiver to a digital audio component with a digital input frequency of 48 kHz.	Optical digital mini-plug
RF REMOTE	Connects to the RF antenna.	RCA-type
AUDIO 3 OUT (R)/(L)	Connects your DSS receiver to the right and left audio inputs of your audio or video component.	Audio (2) (RCA-type)
AUDIO (R)/(L) OUT	Connects your DSS receiver to the right and left audio inputs of your audio or video component.	Audio (2) (RCA-type)
VIDEO OUT	Connects your DSS receiver to your TV or VCR's video input.	Video (RCA-type)
S-VIDEO OUT	Allows you to connect your DSS receiver directly to your TV (if your TV has S-VIDEO IN).	S-Video (4-pin mini DIN)
CH3/CH4 Switch	When you use an RF connection, this setting determines the TV channel on which programs from the DSS receiver can be viewed.	
VHF/UHF IN	Allows you to connect your DSS receiver to your normal (terrestrial) TV or cable TV service.	RG-59 Coaxial (75-ohm/F-type)
VHF(SAT)/UHF OUT	Connects to your TV or VCR.	RG-59 Coaxial (75-ohm/F-type)
TEL LINE	Connects your DSS receiver to a telephone jack. This allows you to order pay-per-view programs.	Telephone (RJ-11)
AC IN	Connects your DSS receiver to a 120V AC outlet.	AC
AC OUT	Connects other components within a rating of AC $120V/300W/3A$ max.	AC

Back Panel (SAT-B2)



Connector	Description	Cable Type
SATELLITE IN	Connects to the LNB on the satellite antenna.	Solid Bare Copper RG-6 Coaxial (75-ohm/F-type)
WIDE BAND DATA	Allows you to connect your DSS receiver to new technologies (such as high-definition television), as they are introduced. Additional accessories may be required.	Depends on future applications (D-sub 15 pin)
CONTROL-S IN/ S-LINK	Allows you to pass on remote control signals to another Sony infrared-controlled audio or video component.	Audio mono miniplug
VCR MOUSE/ CONTROL-S OUT	Allows you to pass on remote control signals to another Sony infrared-controlled audio or video component. Also used to connect the Sony VCR Mouse (RM-VM101).	Audio mono miniplug
AUDIO (R)/(L) OUT	Connects your DSS receiver to the right and left audio inputs of your audio or video component.	Audio (2) (RCA-type)
VIDEO OUT	Connects your DSS receiver to your TV or VCR's video input.	Video (RCA-type)
S-VIDEO OUT	Allows you to connect your DSS receiver directly to your TV (if your TV has S-VIDEO IN).	S-Video (4-pin mini DIN)
CH3/CH4 Switch	When you use an RF connection, this setting determines the TV channel on which programs from the DSS receiver can be viewed.	
VHF/UHF IN	Allows you to connect your DSS receiver to your normal (terrestrial) TV or cable TV service.	RG-59 Coaxial (75-ohm/F-type)
VHF(SAT)/UHF OUT	Connects to your TV or VCR.	RG-59 Coaxial (75-ohm/F-type)
TEL LINE	Connects your DSS receiver to a telephone jack. This allows you to order pay-per-view programs.	Telephone (RJ-11)
AC IN	Connects your DSS receiver to a 120V AC outlet.	AC

Using the Remote Control

The FUNCTION buttons flash to indicate which component the remote control is set to operate.

After you've installed the batteries and programmed the remote control, use these procedures to operate your system components:

Select the component that you want to use: To operate a cable box, TV, or the DSS receiver, press the corresponding FUNCTION button.

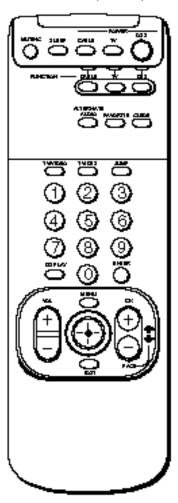
SAT-A2 Only: To operate a VCR or laserdisc player, open the lid on the remote control and set the slide switch to the position that you set for the component.

- Aim the remote control at the component.
- Press the POWER button of the component to turn it on and off.

To control other functions of the component, see the table that follows.

SAT-A2 Remote Control

Outside Panel (SAT-A2)

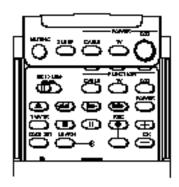


Note

Buttons described in the following table can operate components other than the DSS receiver only if you've programmed the remote and the component supports the function described. See page 85 for instructions on programming the DSS remote.

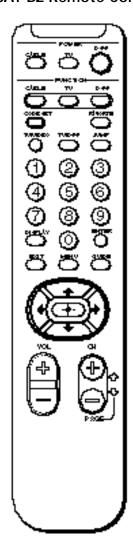
Button	Operates	Description
Ö	TV	Mutes the volume. Press again to restore the volume.
	TV	Automatically turns off the TV, after the time period that you specify.
Pak	4F 03	CABLE: Turns the cable box on and off.
ÖĆ	0	TV: Turns the TV on and off.
	_	DSS: Turns the DSS receiver on and off.
RUHETION	000	CABLE: Puts the remote in cable mode. In cable mode, the remote operates your cable box.
		TV: Puts the remote in TV mode. In TV mode, the remote operates your TV.
		DSS: Puts the remote in DSS receiver mode. In DSS mode, the remote operates your DSS receiver.
ATTENNANT ATTENN	DSS	Selects an alternate audio track for the current program, if one is available. See "Selecting an Alternate Audio Track" on page 59 for details.
New I	DSS	Used for setting up and using the Favorite Station Guides. See "Using the Favorite Station Guides" on page 40 for details.

Button	Operates	Description
	DSS	Brings up the Custom Guide. If you're already in a program guide, pressing GUIDE repeatedly brings up future time slots in the guide.
779644	TV	Switches the input of the TV.
Ö	DSS	Switches the output of the DSS receiver to TV (normal TV programs), if you've connected a TV cable or antenna, or to DSS programs.
Ö	DSS TV Cable	DSS: Used to tune to and set stations in the Jump Loop (DSS). See "Using the Jump Loop Feature" on page 51 for details. TV, Cable: Tunes to the last station you were tuned to.
① to ⑨	DSS TV Cable	Specifies the station number. DSS: In menus, selects the menu item with the corresponding number. Also, in some screens, used to enter numerical values (such as a spending limit or passcode).
O O	DSS TV	Toggles through the different displays of on- screen guides (DSS) or other display (TV). See "Using the DISPLAY Feature" on page 44 for details.
(1)	DSS TV	When moved forward, back, left, right, and diagonally, highlights items in the on-screen displays (program guides, menus, etc.). When pressed, selects highlighted items. When pressed during normal DSS-viewing, brings up the Station Index (unless a message appears).
-	DSS TV	Clears all on-screen displays, including program guides, menus, etc. If you press EXIT before you complete your selections, the previous selections are restored.
<u>ٿ</u>	DSS TV	Moves to the next (+) or previous (-) station during normal viewing. In DSS program guides and some setup screens, these buttons page through the on-screen displays.



Button	Operates	Description
	VCR Laserdisc	Switches to VCR or laserdisc mode, depending on how you've set up the remote for these positions.
•	VCR Laserdisc	Eject (used only with Sony brand components)
⊕	VCR Laserdisc	Rewind
®	VCR Laserdisc	Play
®	VCR Laserdisc	Fast-forward
NAME:	VCR Laserdisc	Turns the VCR or laserdisc player on and off.
WME.	VCR	Changes the VHF/UHF output of the VCR.
0	VCR Laserdisc	Stop
	VCR Laserdisc	Pause
Ö	VCR	Record
⊕ Ö	VCR Laserdisc	Changes the channel (VCR) or chapter (laserdisc).
6 5	DSS	Used for programming the remote to operate your TV, cable box, VCR, laserdisc player, or DSS receiver. Also used to change the RF security code.
- w	DSS	Used for setting up the remote commander to operate components that are not listed in "Programmable Codes" on page 86.

SAT-B2 Remote Control



Button	Operates	Description
- FAME	_	CABLE: Turns the cable box on and off.
<u>፞</u> ፝፞፞	L .	TV: Turns the TV on and off.
	•	DSS: Turns the DSS receiver on and off.
— FUNCTION —		CABLE: Puts the remote in cable mode. In cable
CABLE TV DSS		mode, the remote operates your cable box.
		TV: Puts the remote in TV mode. In TV mode, the
		remote operates your TV.
		DSS: Puts the remote in DSS receiver mode. In DSS
	Dag	mode, the remote operates your DSS receiver.
	DSS	Used for programming the remote to operate your TV or cable box.
PARENT B	DSS	Used for setting up and using the Favorite Station
0		Guides. See "Using the Favorite Station Guides" on page 40 for details.
NAME OF	TV	Switches the input of the TV.
_		
****	DSS	Switches the output of the DSS receiver to TV
0		(normal TV programs), if you've connected a TV
		cable or antenna, or to DSS programs.
	DSS	DSS: Used to tune to and set stations in the Jump
_	TV	Loop (DSS). See "Using the Jump Loop Feature" on
	Cable	page 51 for details. TV, Cable: Tunes to the last station you were tuned to.
-	DSS	Specifies the station number. DSS: In menus, selects
(i) to (9)	TV	the menu item with the corresponding number.
10110 (31	Cable	Also, in some screens, used to enter numerical
		values (such as a spending limit or passcode).
	DSS	Toggles through the different displays of on-screen
0	TV	guides (DSS) or other display (TV). See "Using the
		DISPLAY Feature" on page 44 for details.
Ö	DSS TV	Used with 0-9 buttons to change stations without
3	r v Cable box	any delay in tuning.
	Cable box	
	DSS	Clears all on-screen displays, including program
134	TV	guides, menus, etc. If you press EXIT before you
		complete your selections, the previous selections
mu.	Dec	are restored. Prings up the Main Manu (Sony brand TVs only)
~	DSS TV	Brings up the Main Menu (Sony-brand TVs only.)
	DSS	Brings up the Custom Guide. If you're already in a
		program guide, pressing GUIDE repeatedly brings
	D 66	up future time slots in the guide.
	DSS TV	When moved up, down, left, and right, highlights items in the on-screen displays (program guides,
	l *	menus, etc.). When pressed, selects highlighted
(* (<u> </u>		items. When pressed during normal DSS-viewing,
\checkmark	•	brings up the Station Index (unless a message
		appears).
- ek	TV	VOL: Increases and decreases the volume.
\triangle	DSS	CH/PAGE: Moves to the next (+) or previous (-)
	•	station during normal viewing. In DSS program
	•	guides and some setup screens, these buttons page
		through the on-screen displays.

Programming the Remote Control

The DSS receiver's remote control is preset at the factory to operate Sony brand TVs.

If you have a TV other than Sony brand, or you have other video components that you want to control with the DSS receiver's remote, use the following procedures to program the remote.

Note

Your components must have infrared (IR) remote control capability in order to be used with the DSS receiver's remote.

To program the DSS receiver's remote:

- Turn to "Programmable Codes" on page 86, and find the threedigit code number for your component. If more than one code number is listed, use the number listed first to complete the following procedures.
- Press the CODE SET button.
- Press the FUNCTION button (CABLE or TV) for the component you're setting up. SAT-A2 Only: To set up a VCR or laserdisc player, set the slide switch to any position (VTR1/2/3/MDP).
- Enter the three-digit code number.
- Press the ENTER button.

You can also find these code numbers using the on-screen displays. See "Displaying the Programmable Codes" on page 74.

You must perform step 3 within 10 seconds of step 2, or you must start again from step 2.

You must perform step 4 within 10 seconds of step 3, or you must start again from step 2. To cancel the operation, press the ENTER button.

To Check if the Code Number Works

Use the following procedure to make sure the code you've entered works:

- Aim the DSS receiver's remote control at the component and press the POWER button that corresponds to that component.
- For TVs and cable boxes: If the component responds, try the CH+ and CH- buttons. If the component responds, you're done.
- If the code doesn't work for your component:
 - ☐ Try programming the remote using the other codes listed for your component.
 - ☐ If you cannot get your component to respond to the DSS receiver's remote — even after trying all the code numbers for your component — your component may not be compatible with the DSS receiver's remote. If this happens, you must use your component's own remote to operate it. SAT-A2 Only: Try using the Learn feature to program specific buttons. See "Using the Learn Function (SAT-A2 Only)" on page 87.

Programmable Codes

TV Codes

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Laserdisc Player Codes (SAT-A2 Only)

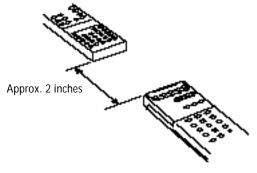
Code
701
707
703
702
702
704
703
702
702
706
705
703

Using the Learn Function (SAT-A2 Only)

You can program the DSS remote commander to learn the functions of another component's remote control. Use this function to operate components that are not listed in "Programmable Codes" on page 86.

To use the Learn function:

- Set the slide switch in the inside panel to VTR3 or MDP.
- Place the DSS remote commander and the other component's remote control directly facing each other, about two inches apart.



- Press the LEARN button. The Learn indicator lights.
- Press the button on the DSS remote commander that you want to learn a function. The Learn indicator flashes off, then on, indicating that the DSS remote commander is now ready to learn.
- Hold down the corresponding button on the other component's remote control. When the Learn indicator flashes off, then on, release the button on the other component's remote control.

If the indicator doesn't flash, repeat steps 4 and 5.

To learn other functions, repeat steps 4 and 5.

About the Learn Function

- The Learn function does not work in the VTR1 and VTR2 slide switch positions.
- During the learning procedure, do not move the remote controls.
- If you press a button on this remote commander that cannot be used for learning, the Learn indicator flashes four times.
- To clear all learned signals from memory, set the slide switch inside the lid to MDP, press the LEARN button, press the DSS POWER button while holding down the VOL- button, and then press the LEARN button again.
- When you remove the batteries to replace them, for example any codes you've set may be erased.

Troubleshooting

Symptom	Pos	ssible Causes and Remedies
No picture (poor picture quality or loss of picture)		If you are receiving only a few stations, for example, stations 100, 205, and 999, call your program providers to have your programming activated.
		Check to make sure the DSS receiver is on and set to DSS mode. See page 78.
		Check to make sure your access card is inserted properly into the DSS receiver.
		Run the System Test to verify that your system is working properly. See page 75.
		Check the satellite antenna's signal strength. See page 67.
		Check the connections to your TV (and other components). See the Satellite Antenna manual and Chapter 3 of this manual.
		Check to make sure your TV (and other components) are set to receive the DSS signal (channel 3 or 4, VIDEO1, etc.), as appropriate to the way your system is connected. See Chapter 3.
		Some pay-per-view programs may be protected by Macrovision copy- protection at the discretion of the copyright owner. To ensure a quality picture, make sure that the signal is coming directly from the DSS receiver and not through your VCR. Call your program providers for details.
		Make sure the RG-6 cable is properly connected to the antenna's LNB. If the Signal Seeker is not flashing on the LNB when the Set Up Antenna screen is displayed, there may be an electrical short in the RG-6 cable and you will need to replace it.
		In rare cases, the picture may be distorted if you connected a terrestrial TV antenna to the UHF/VHF IN jack of the receiver. This distortion could occur if the channel selector on the back of the receiver is set to a channel that is normally received on channel 3 or 4 of your TV. For example, you can receive a local station on channel 4, and the channel selector is set to channel 4. If this happens, set the channel selector to the other channel (3 or 4), whichever one is not used on your TV.
Cannot access program		Check to make sure that you are subscribing to the station you are trying to tune to. Call your program providers if you are not sure.
		Check to make sure the system is not locked. See Chapter 5.
		Check to make sure the station isn't set to be skipped. See page 57.
Cannot order pay-per-view program		Check to make sure you've connected the DSS receiver to a phone line.
		It may be too late to purchase this program. Check for other show times. See page 31 .
		If the message "Purchase information not available" appears, you must call your program provider (DIRECTV or USSB) to order the program.
		Check to make sure the PPV option is not locked. See Chapter 5.
		Your access card may be full. Call your program provider.
Cannot find the station of the pay-per- view program you've ordered		See "Checking and Cancelling PPV Purchases" on page 47 to get information (station, start times, etc.) about programs you've ordered.

Symptom	Pos	ssible Causes and Remedies
Cannot cancel a pay-per-view order via the Purchase menu option		You cannot cancel pay-per-view orders that you've watched or tuned to. Also, you can cancel only programs you've ordered using the DSS remote control. Call your program providers for details.
Program guide does not bring up the program you've chosen		You must press the -\$\dpha\$- button to select the program you've highlighted. Although the guide automatically tunes to current stations that you highlight in any of the guides, you must press the -\$\dpha\$- button to complete your selection.
Cannot bring up the Station Index (You cannot bring up the Station Index while a program guide is displayed or if a message such as, "Press - to purchase" appears. Press the EXIT button to clear any on-screen displays. Also, try switching to another non-PPV station.
Cannot display favorite stations		You must set up your Favorite Station Guides before favorite stations can be displayed. See page 40.
		If you selected a program guide using SELECT GUIDE or SELECT LIST, some of your Favorite Stations may not be displayed when you press the FAVORITE button. This is probably because the program that's on the Favorite Station is in a program category that's different from the category or subcategory you selected for the displayed guide or list.
Ratings limit, spending limit, or pay- per-view lock not working properly		Check locks and limits. Then check that the system is locked. See Chapter 5.
Cannot access locks or limits screens		The system must be unlocked before you can make changes to the locks and limits. See Chapter 5.
Cannot lock or unlock the system		Make sure you've entered the correct passcode. If you've lost or forgotten your passcode, call your program provider. See "Customer Support" on page 2.
Alternate audio track is not available		Not all programs offer alternate audio tracks. See page 59.
Language of audio track is incorrect		Check default language setting. The program provider may not make available all the languages displayed in the Set Default Language screen. See page 60. Check alternate audio track setting. See page 59.
Cannot record DSS program on VCR		Check to make sure the VCR is connected correctly, and that the VCR is set to receive the signal from the DSS receiver. See Chapter 3.
		If you are using the automatic timer to facilitate the recording of programs, make sure the program you are trying to record does not conflict with any locks or limits that have been set. If you are using the timer for PPV programs, you must purchase these programs in advance, which may require that you call your program provider to order the program.
		Make sure you are not trying to record a pay-per-view program that is copy-protected by Macrovision. Some pay-per-view programs are copy-protected at the discretion of the copyright owner. Call your program provider for details.

Symptom	Possible Causes and Remedies		
VCR Mouse not working		Check that the VCR Mouse is positioned directly above the VCR's IR receiving area. (The IR receiving area is located on the front panel of the VCR, and it typically looks like a small black window. See your VCR manual for details.) If you cannot locate the IR receiving area, try moving the VCR Mouse to different positions on top of the VCR until the VCR responds to the VCR Mouse.	
		Try setting up the VCR Mouse again, using the procedures described on page 20. Then try the other codes listed for your VCR.	
		With some VCRs, the VCR Mouse may not be able to turn the VCR on and off. If this is the case, leave the VCR on.	
		The VCR Mouse may not work properly, or at all, with some VCRs, including VCRs that are available in the market after the VCR Mouse was introduced. If your VCR is incompatible with the VCR Mouse, call the Sony Digital Satellite System Information Center at 1-800-838-7669.	
Main Menu, buttons 4 and 6, do not include the program categories that you want		Use SELECT GUIDE to change the program category shown in button 4. Use SELECT LIST to change the program category shown in button 6. See page 35.	
Access card problems		Check that the card is inserted properly. See page 68.	
		Call your program providers. See "Customer Support" on page 2.	
Remote control doesn't work		To operate your TV or other video components, make sure you've programmed the remote properly. See "Programming the Remote Control" on page 85. Note: The remote codes may be erased whenever you remove the batteries. Program the remote again if you've removed or replaced the batteries.	
		Press the appropriate FUNCTION button (DSS, TV, CABLE) for the component you want to operate. These buttons flash to indicate which component the remote control is set to operate.	
		Check to make sure the batteries are inserted correctly, and that the batteries are not dead. See page 6.	
		SAT-A2 Only: If you are having problems with the RF function, check that the RF antenna is connected properly and that you are using the remote control within operating range of the DSS receiver (see "Setting Up the RF Antenna (SAT-A2 Only)" on page 22). Make sure that RF transmission is enabled (see "Selecting IR/RF Transmission (SAT-A2 Only)" on page 71). Make sure the DSS receiver and remote control are using the same security code (see "Setting the Security Code (SAT-A2 Only)" on page 72).	

If you are unable to resolve problems with your system, please see "Customer Support" on page 2 for customer support information and telephone numbers.

Precautions

On Safety	If you spill or drop anything into the cabinet, unplug the receiver and have it checked by qualified personnel before operating it any further.
	Operate the receiver only on 120 V AC.
	For detailed safety precautions, see the "Important Safeguards" leaflet that came with the receiver.
On Power Sources	The receiver continues to draw power from the AC power source as long as it is connected to the wall outlet, even if the receiver itself has been turned off.
	If you are not going to use the receiver for a long time, be sure to disconnect the receiver from the wall outlet and cancel your programming subscription. To disconnect the AC power cord, grasp the plug itself; never pull the cord.
	To further protect the receiver from damage caused by lightning or power surges, connect a power surge protector to your telephone line, AC power cord, and external antennas.
	One blade of the plug is wider than the other for the purpose of safety and will fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
	If the AC power cord gets damaged and needs to be replaced, have it done at a qualified service shop only.
On Placement	Place the receiver in a location with adequate ventilation to prevent heat build-up in the receiver and prolong the life of the receiver.
	Do not place the receiver in a location where it will be exposed to extreme hot or cold temperatures. Avoid direct sunlight and do not place near heat sources.
	Do not place the receiver in a location subject to excessive dust or mechanical vibration. Protect from vibration at all times.
	Do not place anything on top of the receiver, which might block the ventilation holes and cause malfunctions.
	Before connecting other components, be sure to turn off and unplug the receiver.
On Cleaning	Clean the cabinet, panel, and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine.
On Repacking	Keep the original cartons and packing materials to safely transport the equipment in the future.

FCC Regulations and Information

FCC Registration Information

Your digital satellite receiver has been registered by the Federal Communication Commission (FCC) as not being harmful to the telephone network when connected directly to the telephone lines. In order to fully comply with the Rules of the FCC, the following instructions should be read carefully and followed completely where applicable:

- 1 The Federal Communication Commission (FCC) has established Rules which permit this device to be directly connected to the telephone network. Standardized jacks are used for these connections. This equipment should not be used on party lines or coin phones.
- 2 If this device is malfunctioning, it may also be causing harm to the telephone network; this device should be disconnected until the source of the problem can be determined and until repair has been made. If this is not done, the telephone company may temporarily disconnect service.
- 3 The telephone company may make changes in its technical operations and procedures; if such changes affect the compatibility or use of this device, the telephone company is required to give adequate notice of the changes. You will be advised of your right to file a complaint with the FCC.
- 4 If the telephone company requests information on what equipment is connected to their lines, inform them of:
 - a The telephone number to which this unit is connected.
 - b. The ringer equivalence number.
 - c. The USOC jack required.
 - d. The FCC Registration Number.
- 5 Items (b) and (d) are indicated on the label. The Ringer Equivalence Number (REN) is used to determine how many devices can be connected to your telephone line. In most areas, the sum of the RENs of all devices on any one line should not exceed five (5). If too many devices are attached, they may not ring properly.

Service Requirements

In the event of equipment malfunction, all repairs should be performed by our Company or an authorized agent. It is the responsibility of users requiring service to report the need for service to our company or to one of our authorized agents. For service, call 1-800-838-7669.

Radio Interference Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception (which you can determine by turning the equipment off and on), you are encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna (the antenna for radio or television that is receiving the interference)
Change the position of the DSS receiver with respect to the radio or television equipment that is receiving the interference
Move the DSS receiver away from the equipment that is receiving the interference
Plug the DSS receiver into a different outlet so that the DSS receiver and the equipment receiving the interference are or

Shielded cables and I/O cords must be used for this equipment to comply with the relevant FCC regulations. Changes or modifications not expressly approved in writing by Sony Electronics, Inc., void the user's authority to operate this equipment.

If these measures do not eliminate the interference, you should consult your digital satellite system dealer or an experienced radio/television technician for additional suggestions. In addition, you may find the following booklet prepared by he Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.C., 20402 Stock No. 004-000-00345-4.

Canadian Residents

different branch circuits

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la class B prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

Limited Warranty

Digital Satellite Systems

SONY ELECTRONICS INC. ("SONY") warrants this Product (including any accessories) against defects in material or workmanship as follows:

- LABOR. For a period of 90 days from the original date of purchase, if the Product is determined to be defective, SONY will repair or replace the Product at no charge. After this 90 day period, you must pay for all labor charges.
- PARTS. For a period of one (1) year from the original date of purchase, SONY will supply, at no charge, new or rebuilt replacements in exchange for defective parts. Any replacements will be warranted for the remainder of the original warranty period or ninety (90) days from installation by SONY's authorized facility, whichever is longer.
- ACCESSORIES. Parts and labor for all accessories are for one (1) year.
- IN-HOME. For a period of one (1) year from installation date, if the unit was professionally installed by an authorized SONY Digital Satellite System Installer and the LNB (Electronic Antenna Element) fails to function properly, SONY will repair or replace the LNB with a new or rebuilt part. Labor to repair or replace the LNB (after 90 days from purchase) will be at your expense. If no problem is found, or any other item fails, it will be your responsibility to pay the installer their regular rate for an in-home service call.

To obtain warranty service, you must take the Product, or deliver the Product freight prepaid, in either its original packaging or packaging affording an equal degree of protection, to a SONY authorized Digital Satellite System service facility. Please see the telephone number at the end of this section for a number to call to locate the closest facility.

This warranty does not cover customer instruction, installation, setup adjustments or signal reception problems.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover improper installation (if self-installed), loss of use of the product, or wasted programming charges due to product malfunction. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than a facility authorized by SONY to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS. This warranty is valid only in the United States.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. IN NO EVENT SHALL SONY BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT. UNDER NO CIRCUMSTANCES SHALL SONY'S LIABILITY, IF ANY, EXCEED THE PURCHASE PRICE PAID FOR THE PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

This warranty is invalid if the factory applied serial number has been altered or removed from the Product.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the SONY Partnership within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

For your convenience, SONY ELECTRONICS INC. has established telephone numbers for frequently asked questions. To locate the servicer or dealer nearest you, for assistance or resolution of a service problem, or for product information or operation, call:

> SONY DIGITAL SATELLITE SYSTEM INFORMATION CENTER 1-800-838-7669 (Sony)

For an accessory or part not available from your authorized dealer, call:

1-800-488-7669

About Sony Customer Support

Every Sony brand DSS unit comes with Sony's Express Support at no charge to you. In the event of a system failure, our Express Support Program can have a replacement receiver on its way to you via overnight Federal Express (for calls Monday-Friday until 11:00 pm; Saturday delivery depends upon zip code). All it takes is a valid credit card to cover a security deposit, and Sony will pay freight in both directions. Our Express Support continues with our 800 number, staffed by dedicated technical representatives who can answer questions on dealer locations, system operation, installation, hookup, accessories, and how to get the most out of your home entertainment system. Sony's Express Support program: another expression of our commitment to excellence in customer service.

Specifications

Input Jacks Output Jacks	UHF/VHF 75 ohm f-type Satellite Antenna 75 ohm f-type RF Remote (SAT-A2) CONTROL-S IN/S-LINK (mini-jack) 5 Vp-p AC Power (120V, 60 Hz) S-VIDEO OUT 4-pin mini DIN	Supplied Accessories	Remote Control RM-Y130 (SAT-A2) RM-Y129 (SAT-B2) Size AA Batteries (2) Access Card (1) Audio/Video Cable (1) S-VIDEO Cable (1) (SAT-A2) RF Antenna (1) (SAT-A2) RF Cable (1) Telephone Line Cord (1) AC Power Cord (1)
	VIDEO (RCA jacks) (2) AUDIO R/L (RCA jacks) 3 (SAT-A2); 2 (SAT-B2) VHF(SAT)/UHF, f-type Low-Speed Data (SAT-A2) 9-pin D-Sub Female Wide Band Data 15-pin D-Sub Female TEL LINE VCR MOUSE/CONTROL-S (mini-jack) OPTICAL DIGITAL OUT (SAT-A2) AC Power Unswitched (SAT-A2) (120V, 60 Hz)	Optional Sony-brand DSS Accessories	Installation Kit ANJ-DS1 Amplifier EAC-DA1 Diplexer EAC-DD1 Voltage Switch EAC-DV1 Multi-Room Distribution System MRD-D1 IR Target (for MRD-D1 System) EAC-T1 Universal Remote Commander
Input Frequency	950 - 1450 MHz		RM-Y130 Flat Cable
Power Requirements	AC 120 V		SAK-F1 Coaxial Cable (25 ft.)
Power Consumption	20 W max		SAK-C25 Coaxial Cable (75 ft.)
Dimensions (w/h/d) Weight	430 x 85 x 290 mm 16.9 x 3.2 x 10.8 inches Set: 5.2 kg/11.4 lbs (SAT-A2)		SAK-C75 VCR Mouse RM-VM101
	4.9 kg/10.8 lbs (SAT-B2) Unit: 3.0 kg/6.6 lbs (SAT-A2) 2.9 kg/6.4 lbs (SAT-B2)		

Note

Design and specifications are subject to change without notice.

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